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**更多信息:**

【English】新生代地质与环境研究室

**简历:**

吴海斌, 博士, 研究员。1973年生于浙江金华。  
1992—1999年在兰州大学地理系自然地理专业获学士、硕士学位,  
1999—2002年在中国科学院地质与地球物理研究所第四纪专业获博士学位。  
2002年在中国科学院地球环境研究所任助理研究员, 2004年任副研究员。  
2005—2009年在法国科学院欧洲地学科研中心地中海实验室和加拿大魁北克大学蒙特利尔分校环境研究所进行博士后研究。  
2009年被聘为中国科学院地质与地球物理研究所研究员。

**研究方向:**

主要研究领域是古气候学与碳循环, 长期从事全新世土壤有机和无机碳库变化及人类活动的影响、陆地和水生生态系统碳循环、植被反演模型的研制及古气候参数定量化等方面的研究

**学科类别:**

地貌学与第四纪地质学

**职务:**

**社会任职:**

**获奖及荣誉:**

**承担科研项目情况:**

1. 新生代东亚陆地生态系统演化与全球碳循环, 中国科学院“百人计划”, 2009—2011, 项目负责人。
2. 末次间冰期以来典型时段中国北方区域古碳储量变化研究, 国家自然科学青年基金项目, 2004—2006, 项目负责人。
3. A process-based model for assessing the impacts of reservoirs and forest harvesting on the carbon budget of aquatic ecosystem. Natural Sciences and Engineering Research Council of Canada (NSERC) research program, 2006—2008, 项目参加人。
4. Evolution of the carbon storage in the terrestrial ecosystems: past, present and future. Fellowship of the French “Ministère de la Recherche”, 2004—2005, 项目负责人。

**代表论著:**

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2. **Wu H B**, Guo Z T, Gao Q, and Peng C H. 2009, Distribution of soil inorganic carbon storage and its changes due to land use activity in China. *Agriculture Ecosystems & Environment*, 129: 413 - 421.
3. Yu Y Y, Guo Z T, **Wu H B**, Kahmann Julia A, and Oldfield F. 2009, Spatial changes in soil organic carbon density and storage of cultivated soils in China from 1980 to 2000. *Global Biogeochemical Cycles*, 23: GB2021, doi:10.1029/2008GB003428.
4. Guiot J, **Wu H B**, GarretalV, Hatte C, and Magny M. 2009, A few prospective ideas on climate reconstruction: from a statistical single proxy approach towards a multi-proxy and dynamical approach. *Climate of the Past*, 5: 571 - 583.
5. Jiang W Y, Guiot J, Chu G Q, **Wu H B**, Yuan B Y, Hatté C, and Guo Z T. 2009, An improved methodology of modern analogues technique for palaeoclimate reconstruction in arid and semi-arid regions. *Boreas*, (in press).

6. Guiot J, **Wu H B**, Jiang W Y, and Luo Y L. 2008, East Asian Monsoon and paleoclimatic data analysis: a vegetation point of view. *Climate of the Past*, 4: 137-145.
7. Guiot J, Christelle H A, **Wu H B**, and Cedric G. 2008, Interactions between vegetation and climate variability: what are the lessons of models and paleovegetation data. *C. R. Geoscience*, 340: 595 - 601.
8. Zhou X L, Peng C H, Dang Q L, Sun J F, **Wu H B**, and Hua D. 2008, Simulating carbon exchange in Canadian Boreal forests I: model structure, validation, and sensitivity analysis. *Ecological Modelling*, 219: 287 - 299.
9. William F R, Guo Z T, Zhou X, **Wu H B**, and Yu Y Y. 2008, Early rice farming and anomalous methane trends. *Quaternary Science Reviews*, 27: 1291 - 1295.
10. **Wu H B**, Guiot J, Brewer S, Guo Z T, and Peng C H. 2007, Dominant factors controlling glacial and interglacial variations in the treeline elevation in tropical Africa. *Proceedings of the National Academy of Sciences USA*, 104: 9720-9724.
11. **Wu H B**, Guiot J, Brewer S, and Guo Z T. 2007, Climatic changes in Eurasia and Africa at the Last Glacial Maximum and the mid-Holocene: reconstruction from pollen data using inverse vegetation modelling. *Climatic Dynamics*, 29: 211-219, DOI 10.1007/s00382-007-0231-3.
12. Ramstein G, Kageyama M, Guiot J, **Wu H B**, Hély C, Krinner G, and Brewer S. 2007, How cold was Europe at the Last Glacial Maximum? A synthesis of the progress achieved since the first PMIP model-data comparison. *Climate of the Past*, 3: 331-119.
13. Zhang F, Li C, Wang Z, and **Wu H B**. 2006, Modeling impacts of management alternatives on soil carbon storage of farmland in Northwest China. *Biogeosciences*, 3: 451- 466.
14. Jiang W Y, Guo Z T, Sun X J, **Wu H B**, Chu G Q, Yuan G Y, Hatté C, and Guiot J. 2006, Reconstruction of climate and vegetation changes of Lake Bayanchagan (Inner Mongolia): Holocene variability of the East Asian monsoon. *Quaternary Research*, 65: 411-420.
15. Guo Z T, **Wu H B** and Peng C H, 2005 Human-induced changes of organic carbon storage in soils of China. *PAGES News*, 13(2): 11-12.
16. Lu H Y, Wu N Q, Gu Z Y, Guo Z T, Wang L, **Wu H B**, Wang G A, Zhou L P, Han J M and Liu T S. 2004, Distribution of carbon isotope composition of modern soils on the Qinghai-Tibetan Plateau. *Biogeochemistry*, 70 (2): 273-297.
17. Wang L, LÜ H Y, Wu N Q, Chu D, Han J M, Wu Y H, **Wu H B**, and Gu Z Y. 2004, Discovery of C4 species at high altitude in Qinghai-Tibetan Plateau. *Chinese Science Bulletin*, 49: 1392-1396.
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20. **Wu H B**, Guo Z T, Fang X M, et al. 2002, Desert expansion in northern China since 250 ka B.P. and the environment significance. *Chinese Science Bulletin*, 47(20): 1740-1745.
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23. 郭正堂, 吴海斌. 2004, 浅谈固体地球科学与地球系统科学。地球科学进展, 19(5):609-705.
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27. 吕厚远, 顾兆炎, 吴乃琴, 汪罗, 郭正堂, 吴海斌. 2001, 海拔高度的变化对青藏高原表土 $\delta^{13}\text{C}_{\text{org}}$ 的影响. 第四纪研究, 21 (5) : 300~406.
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