

地理学报(英文版) 2005年第15卷第3期

Comparative studies of Danxia landforms in China

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Danxia geomorphology originates from China. This paper studies the spatial distribution and differences in characteri stics of Danxia Landforms. Based on relevant research and investigations, three congregated areas of Danxia Landform in China are discussed in this paper. They are the southeast area (including Jiangxi, Fujian, Zhejiang, Hunan and Gua ngxi provinces), the southwest area (the transitional zone of Yunnan-Guizhou Plateau and Sichuan Basin) and the north west area (including Longshan mountain and along the banks of the Huanghe River and its anabranches). Not only the co nditions of geology and geography of the three areas but also the differences of Danxia landforms of the three areas are analyzed. The Danxia Landscape, characterized by upright-shaped peaks, Danxia mesa, stone wall, cave and vertica I cave, "Danxia natural bridge", "a narrow strip of sky" and so on, often presents in the southeast area. The landsca pe of southwest area is characterized by Danxia escarpment faces and waterfalls. In the northwest area, the Danxia La ndscape has the traits of arid areas simultaneously, for example, mud-coating type, columniation type, board type, mo reover, it is greatly different between these environmental factors such as the microclimate, water, wind, and the lo ess cover. Finally it explores the causes which lead differences in landform and also explains the landform formatio n process and its mechanism with reference to the rates of crustal uplift, the tectonic red-basin, and the external p rocesses including working of running water, weathering, biogenic, gravity in each area of Danxia Landforms in Chin a.

Paper (PDF)

关键词: Danxia Landform; Landscape; China doi: 10.1360/gs050307

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