

## 中国科学院地理科学与资源研究所

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Dryness-wetness change and regional differentiation of flood-drought disasters in Guangdong during 1480-1940AD

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Based on the historical records of the drought and flood disasters during 1480-1940AD, this paper reconstructs the se quences of wetness index (WI) and drought and flood disasters. We find a good identical relationship between the fluc tuation of WI sequence and the ?啄180 record of the GISP2 ice core in Greenland, which shows an apparent monsoonal di sposal pattern of moisture and temperature. By applying the Morlet Wavelet Transform Method to deal with the data, se veral apparent periodicities, such as 7-8a, 11-15a, 20-23a and ca 50a, are revealed, among which some can be attribut ed to the solar forcing. Based on results of Cluster Analysis of dry-wet changes, we resume the regional differentiat ion pattern of flood-drought disasters all over Guangdong during different climatic intervals in the LIA and, find the ewestern and northern parts of Guangdong have undergone drastic changes in drought-flood regional differentiation, b ut the eastern part is relatively stable, and the area of the Pearl River Delta shows stable condition of more flood disasters.

Paper (PDF)

关键词: Guangdong; climatic change; drought and flood disaster; regional differentiation; the LIA doi: 10.1360/gs050303