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## 龙川江径流年内分配及变化趋势研究

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### Study on Change Trend of Annual Runoff Distribution in Longchuan River

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**摘要** 河川径流年内分配特征影响水资源开发利用和区域生态环境, 它的变化在一定程度上能反映人类活动和气候变化。本文根据龙川江干流主要水文测站1954~2001的月天然径流资料, 分析了年内分配不均匀系数、完全调节系数、集中度、集中期和变化幅度等特性及变化趋势。结果表明: 小黄瓜园站和楚雄站径流年内分配不均匀系数、完全调节系数都存在减小趋势, 2个测站总体变化趋势相近; 对比楚雄站和小黄瓜园站不均匀系数和集中度的拟合曲线, 可以发现楚雄站年内分配不均匀系数、集中度降低趋势比黄瓜园站明显, 同时, 径流集中期无明显变化, 但楚雄站的径流集中期要略早于黄瓜园站。

**关键词:** 年内分配 径流 趋势 龙川江

**Abstract:** Water resources utilization and regional eco environment are influenced by annual stream runoff distribution, to some extent, the change of which reflects the human activity and the climate change. In this paper, the index of unevenness, complete adjustment coefficient, runoff concentration degree, runoff concentration period and variation were defined and calculated according to gauge records of monthly runoff of Longchuan main hydrologic stations during 1954~2001. The result showed that the unevenness index and complete adjustment coefficient of Xiao Huangguayuan station and Chuxiong station were in negative trend and the changing tendency was quitesimilar; compared with the fitting curves, the decreasing tendency of the unevenness index, runoff concentration degree of Chuxiong station appeared more obvious than that of Xiao Huangguayuan station; there was no obvious change in runoff concentration period, which of Chuxiong station came earlier than that of Xiao Huangguayuan station.

**Keywords:** annual distribution runoff trend Longchuan River

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