

Review

Regional Flood Frequency Analysis: A Bibliometric Overview

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Abstract: In water resources management, environmental and ecological studies, estimation of design streamflow is often needed. For gauged catchments, at-site flood frequency analysis is used for this purpose; however, for ungauged catchments, regional flood frequency analysis (RFFA) is the preferred method. RFFA attempts to transfer flood characteristics from gauged to ungauged catchments based on the assumption of regional homogeneity. A bibliometric analysis on RFFA is presented here using Web of Science (WoS) and Scopus databases. A total of 626 articles were selected from these databases. From the bibliometric analysis, it has been found that Journal of Hydrology and Water Resources Research are the two leading journals reporting RFFA research. In RFFA research, leading countries include Canada, USA, UK, Italy and Australia. In terms of citations, the top performing researchers are Ouanda T, Burn D, Rahman A, Haddad K and Chelana F. Future research should be directed towards the identification of homogeneous regions, application of efficient artificial intelligence (AI)-based RFFA models, incorporation of climate change impacts and uncertainty analysis.

Keywords: floods; regional floods; regional frequency analysis; regionalization; homogeneous regions; probability distribution; bibliometric analysis; L-moments; index flood; ungauged catchments



Citation: Ahmed, A.; Yildirim, G.; Haddad, K.; Rahman, A. Regional Flood Frequency Analysis: A Bibliometric Overview. *Water* **2023**, *15*, 1658. <https://doi.org/10.3390/w15091658>

Academic Editors: Chang Hwang and Giovanni Riva

Received: 7 March 2023
Revised: 14 April 2023
Accepted: 20 April 2023
Published: 24 April 2023



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1. Introduction

Flooding is a natural disaster that often causes extensive economic damage and loss of life [1]. Flooding is becoming more intense and frequent due to climate change [2]. To reduce flood damage at a given location, a flood risk assessment is often carried out. It involves estimation of a design flood, which is defined as a flood discharge associated with an annual exceedance probability. Design floods are used in the design of hydraulic structures and many other flood management tasks. At a gauged location, at-site flood frequency analysis is carried out to estimate design floods. However, many locations where a design flood estimate is needed are ungauged or have little recorded streamflow data. For these ungauged sites, a regional flood frequency analysis (RFFA) is adopted to estimate design floods [3–5]. RFFA may focus on peak, volume, frequency, depth and duration of flood events [6,7].

RFFA consists of two principal steps: identification of homogeneous regions and development of regional flood estimation equations [8,9]. Homogeneous regions can be formed based on a geographical boundary where all the sites in an assumed region form a fixed region [10–13]. Alternatively, a region-of-influence (ROI) approach can be adopted where each of the selected sites forms its own region [14,15]. Regional homogeneity is a vital assumption of RFFA, which may affect relative accuracy of flood quantile estimates [16–19]. To assess the degree of homogeneity in a proposed region, various statistical tests are proposed [20–23]. Regions can be formed on a geographical space or in a catchment attribute space. Various multivariate statistical techniques such as principal component analysis [24,25], cluster analysis [25–27] and canonical correlation analysis [28–30] are used to derive homogeneous regions. More recently, Han et al. [9] applied network theory in identification of homogeneous regions in RFFA.

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Fady A. Khalifeh



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