

Journal of Water and Climate Change

A Journal of the International Water Association

volume 11 | issue 3 | September 2020

Contents

Invited Review Paper

- 577 Review of approaches for selection and ensembling of GCMs

Komaragiri Srinivasa Raju and Dasika Nagesh Kumar

Invited Review Paper

- 600 Forecasting of droughts and tree mortality under global warming: a review of causative mechanisms and modeling methods

Jeongwoo Han and Vijay P. Singh

- 633 Seasonal drought forecasting in arid regions, using different time series models and RDI index

Mohammad Mehdi Moghimi, Abdol Rassoul Zarei and Mohammad Reza Mahmoudi

- 655 Exploring the multiscale changeability of precipitation using the entropy concept and self-organizing maps

Kiyoumars Roushangar, Farhad Alizadeh, Jan Adamowski and Seyed Mehdi Saghebani

- 677 Food security under unreliable rainfall: the case study of a rural community in Limpopo Province, South Africa

Sejabaledi A. Rankoana

- 685 Impact of climate change on the future quality of surface waters: case study of the Ardak River, northeast of Iran

Morteza Nikakhtar, Seyedeh Hoda Rahmati and Ali Reza Massah Bavani

- 703 Water-saving service supply chain cooperation under social welfare maximization

Zhisong Chen and Huimin Wang

- 722 The effects of Mediterranean oscillation on temperature and precipitation data in Turkey

Sezen Cenk and Partal Turgay

- 744 Climate change and hydrological analysis of Tekeze river basin Ethiopia: implication for potential hydropower production

Abebe G. Adera and Knut T. Alfredsen



- 760 IDF curves for future climate scenarios in a locality of the Tapajós Basin, Amazon, Brazil
Carlos Eduardo Aguiar de Souza Costa, Claudio José Cavalcante Blanco and José Francisco de Oliveira-Júnior
- 771 Drought forecasting: A review of modelling approaches 2007–2017
K. F. Fung, Y. F. Huang, C. H. Koo and Y. W. Soh
- 800 Climatic characteristics of drift ice in the northern Barents Sea
Chenglin Duan, Sheng Dong, Zhifeng Wang and Zhenkun Liao
- 812 Rainfall analysis for rain-fed farming in the Great Rift Valley Basins of Ethiopia
Fitih Ademe, Kibebew Kibret, Sheleme Beyene, Mezgebu Getinet and Gashaw Mitike
- 829 Damage of extreme water levels and the adaptation cost of dikes in the Pearl River Delta
Lei He, Guosheng Li, Kuo Li, Yue Zhang and Tengjiao Guo
- 839 Analysis of precipitation changes and its possible reasons in Songhua River Basin of China
Tianxiao Li, Zhaoqiang Zhou, Qiang Fu, Dong Liu, Mo Li, Renjie Hou, Wei Pei and Linqi Li
- 865 Application of MEEMD-ARIMA combining model for annual runoff prediction in the Lower Yellow River
Xianqi Zhang, Wei Tuo and Chao Song
- 877 Water safety assessment and spatio-temporal changes in Dongting Lake, China on the basis of water regime during 1980–2014
Rongrong Wan, Peng Wang, Xue Dai and Zheng He
- 891 Relationship verification between CO₂ and pollutant emissions: policy evaluation based on the pollutant discharge fee in China
Siping Ji, Haiyun Chen, Yongming Chuan, Libin Gao, Chenhui Liu, Hongqin Liu and Wendai Lv
- 901 Modeling water and salinity risks to viticulture under prolonged sustained deficit and saline water irrigation
V. Phogat, J. W. Cox, J. Šimůnek and P. Hayman
- 916 Impacts of climate change on hydrology in the Yellow River source region, China
Junliang Jin, Guoqing Wang, Jianyun Zhang, Qinli Yang, Cuishan Liu, Yanli Liu, Zhenxin Bao and Ruimin He