

©2020 by China Earthquake Networks Center.

ALL RIGHTS RESERVED.

This publication or parts thereof may not be reproduced in
any form without permission of the publisher.

EARTHQUAKE RESEARCH IN CHINA

Quarterly

Volume 34, Number 3, 2020

CHINA EARTHQUAKE NETWORKS CENTER, BEIJING

Editor-in-Chief

CHEN Yong

Nanjing University, Nanjing, China

Deputy Editors-in-Chief

WANG Haitao

China Earthquake Networks Center, Beijing, China

LIU Guiping

Beijing Earthquake Agency, Beijing, China

PENG Zhigang

School of Earth and Atmospheric Sciences, Georgia Institute of Technology, USA

WANG Baoshan

School of Earth and Space Sciences, University of Science and Technology of China, Hefei, China

Editorial Board

CHEN Hanlin

School of Earth Sciences, Zhejiang University, Hangzhou, China

DENG Zhihui

Guangdong Earthquake Agency, Guangzhou, China

DING Zhifeng

Institute of Geophysics, China Earthquake Administration, Beijing, China

FENG Zhisheng

Jiangsu Earthquake Agency, Nanjing, China

FU Hong

Yunnan Earthquake Agency, Kunming, China

GAO Jingchun

Hebei Earthquake Agency, Shijiazhuang, China

GAO Yuan

Institute of Forecasting, China Earthquake Administration, Beijing, China

GUO Jian

Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China

HE Shaolin

Lanzhou Institute of Seismology, China Earthquake Administration, Lanzhou, China

HU Chunfeng

China Earthquake Administration, Beijing, China

HUANGFU Gang

Sichuan Earthquake Agency, Chengdu, China

HUANG Fuqiong

China Earthquake Networks Center, Beijing, China

HUANG Jianping

School of Geosciences, China University of Petroleum (East China), Qingdao, China

HUANG Qinghua

Department of Geophysics, Peking University, Beijing, China

HUANG Zhibin

China Earthquake Networks Center, Beijing, China

JIANG Changsheng

Institute of Geophysics, China Earthquake Administration, Beijing, China

JIANG Haikun

China Earthquake Networks Center, Beijing, China

JIANG Lixin

China Earthquake Networks Center, Beijing, China

JIN Xing

Fujian Earthquake Agency, Fuzhou, China

Koshun YAMAOKA

Department of environmental science, Nagoya University, Japan

LI Jun

Zhejiang Earthquake Agency, Hangzhou, China

LI Zhiqiang

Institute of Geology, China Earthquake Administration, Beijing, China

LIU Jie

China Earthquake Networks Center, Beijing, China

LIU Ruifeng

Institute of Geophysics, China Earthquake Administration, Beijing, China

LIU Xiqiang

Shandong Earthquake Agency, Jinan, China

LIU-ZENG Jing

Tianjin University, Tianjin, China

LU Jun

China Earthquake Networks Center, Beijing, China

MA Qiang

Institute of Engineering Mechanics, China Earthquake Administration, Harbin, China

MA Yanlu

China Earthquake Networks Center, Beijing, China

Mark B ALLEN

Department of Geosciences, Durham University, UK

NI Sidao

Institute of Geodesy and Geophysics, Chinese Academy of Sciences, Wuhan, China

NIE Gaozhong

Institute of Geology, China Earthquake Administration, Beijing, China

NIU Anfu

China Earthquake Networks Center, Beijing, China

QIAO Xuejun

Institute of Seismology, China Earthquake Administration, Wuhan, China

QU Zhe

Institute of Engineering Mechanics, China Earthquake Administration, Harbin, China

SHAN Xinjian

Institute of Geology, China Earthquake Administration, Beijing, China

SHAO Zhigang

Institute of Earthquake Forecasting, China Earthquake Administration, Beijing, China

SHEN Xuhui

Institute of Grustal Dynamics, China Earthquake Administration, Beijing, China

TIAN Qinjian

Institute of Earthquake Forecasting, China Earthquake Administration, Beijing, China

WANG Bin

Yunnan Earthquake Agency, Kunming, China

WANG Tao

Nanjing University, Nanjing, China

WANG Weitao

Institute of Geophysics, China Earthquake Administration, Beijing, China

WU Jianping

Institute of Geophysics, China Earthquake Administration, Beijing, China

XU Tao

Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China

XU Chong

Institute of Grustal Dynamics, China Earthquake Administration, Beijing, China

XUE Bing

Institute of Earthquake Forecasting, China Earthquake Administration, Beijing, China

YANG Hongfeng

The Chinese University of Hong Kong, Hong Kong, China

YANG Liming

Qinghai Earthquake Agency, Xining, China

YAO Huajian

University of Science and Technology of China, Hefei, China

ZHANG Huai

University of Chinese Academy of Sciences, Beijing, China

ZHANG Huiping

Institute of Geology, China Earthquake Administration, Beijing, China

ZHANG Xiaodong

Institute of Earthquake Forecasting, China Earthquake Administration, Beijing, China

ZHANG Yongxian

Institute of Earthquake Forecasting, China Earthquake Administration, Beijing, China

ZHAO Cuiping

Institute of Earthquake Forecasting, China Earthquake Administration, Beijing, China

ZHAO Fengxin

China Earthquake Disaster Prevention Center, Beijing, China

ZHOU Jing

China Earthquake Networks Center, Beijing, China

ZHOU Longquan

China Earthquake Administration, Beijing, China

ZHOU Shiyong

School of Earth and Space Sciences, Peking University, Beijing, China

Executive Editors

XU Qin

ZHENG Ningning

Proofread by:

YANG Yuchen

LIU Lin

Cover designed by:

ZHOU Yijian

FANG Lihua