

TERRESTRIAL, ATMOSPHERIC AND OCEANIC SCIENCES

Terrestrial, Atmospheric and Oceanic Sciences (TAO) is a bi-monthly academic journal for the publication of scientific research papers on the solid earth, the atmosphere, the hydrosphere and the space. Since March 2003 (Vol. 14), TAO has been selected for coverage by the Science Citation Index® (SCI). It is published by the Chinese Geoscience Union (located in Taipei), the Geological Society, the Geophysical Society, the Meteorological Society, and the Oceanographic Society of the Republic of China (ROC). This journal publishes articles, notes, correspondence and reviews. Reviews should put previous scientific work of at least ten years in perspective; other manuscripts should be unpublished original contributions and of significant scientific values. Contents of TAO are also covered by GEOREF Serials List, Research Alert®, EBSCOhost, and Current Contents®/Physical Chemical and Earth Sciences. The publication of this journal is partially subsidized by the Ministry of Science and Technology of the ROC. The following journals have merged into TAO:

* Papers in Meteorological Research (published by the Meteorological Society of the ROC) after Vol. 12, No. 2

* Bulletin of Geophysics (published by the Institute of Geophysics, National Central University) after No. 27

* Acta Oceanographica Taiwanica (published by the Institute of Oceanography, National Taiwan University) after Vol. 42

INTERNATIONAL ADVISORY BOARD

Magdalena Andres

Woods Hole Oceanographic Institution, USA

Rebecca J. Dorsey

University of Oregon, USA

Hugh William Ducklow

Columbia University, USA

Jan Lastovicka

Czech Academy of Sciences, Czech Republic

William K. M. Lau

University of Maryland, USA

Frederic Mouthereau

University Toulouse III - Paul Sabatier, France

Yoshiharu Omura

Kyoto University, Japan

Tian-Chyi Jim Yeh

The University of Arizona, USA

Jin Yi Yu

University of California, Irvine, USA

EDITORIAL BOARD

Editor-in-Chief: Li-Hung Lin *National Taiwan University, Taiwan* E-mail: lhlin@ntu.edu.tw

Editors:

Frédéric Deschamps (Geophysics)

Academia Sinica, Taiwan

E-mail: frederic@earth.sinica.edu.tw

Jia-Yuh Yu (Atmospheric Science)

National Central University, Taiwan

E-mail: jiayuh@atm.ncu.edu.tw

Chung-Chi Chen (Oceanic Science)

National Taiwan Normal University, Taiwan

E-mail: ccchen@ntnu.edu.tw

Yuan-Hsi Lee (Geology)

National Chung-Cheng University, Taiwan

E-mail: seilee@eq.ccu.edu.tw

Jann-Yenq Liu (Space Science)

National Central University, Taiwan

E-mail: jyliu@jupiter.ss.ncu.edu.tw

Min-Hui Lo (Hydrology)

National Taiwan University, Taiwan

E-mail: minhui@ntu.edu.tw

Associate Editors:

Nozomu Takeuchi

University of Tokyo, Japan

Jiun-Yee Yen

National Dong Hwa University, Taiwan

Yu-Heng Tseng

National Taiwan University, Taiwan

Sylvain Barbot

University of Southern California, United States

Jonathan C. Lewis

Indiana University of Pennsylvania, United States

Wen-Chen Chou

National Taiwan Ocean University, Taiwan

Maxime Mouyen

Chalmers University of Technology, Sweden

Gyuwon Lee

Kyungpook National University, South Korea

Shao-Yiu Hsu

National Taiwan University, Taiwan

Hao Kuo-Chen

National Taiwan University, Taiwan

Liang Wu

Chinese Academy of Sciences, China

QiuHong Tang

Chinese Academy of Sciences, China

Pei-Ling Wang

National Taiwan University, Taiwan

Loren C. Chang

National Central University, Taiwan

Agnès Ducharme

National Centre for Scientific Research, France

Tomonori Kume

Kyushu University, Japan

Assistant Editors: Mei-Fang Wu & Pei-Cin Jheng

Cover Image Provider: Pei-Hua Tan, Jien-Yi Tu, and Mei-Yun Tsai

Published by The Chinese Geoscience Union
in association with the Geological Society, the Geophysical Society, the Meteorological Society, and the Oceanographic Society of the Republic of China
No. 1, Sec. 4, Roosevelt Road, Taipei 106319, Taiwan
Publisher: Yue-Gau Chen

Sponsored by The Ministry of Science and Technology, Taiwan, R.O.C.

Printed by Kolor Color Printing Co., Ltd., Taipei, Taiwan

中華郵政台北雜字第 1416 號執照登記為雜誌交寄