

Call for Papers

A special issue on
“The Hualien earthquake swarms”
for the journal *Terrestrial, Atmospheric and Oceanic Sciences (TAO)* is launched.

(Submissions Start date: August 1, 2021)

Title of the special issue

The Hualien earthquake swarms

Scope of the special issue

The Hualien city is located right at the pole of rotation induced by the along-strike transition from Ryukyu subduction to the collision between Luzon arc and the Chinese continental margin. This tectonic regime provides the seismogenic structures for the ruptures of the 1951 M 7.3 Hualien-Taitung one-month-long earthquake sequence, the recent 2018 Mw 6.4 Hualien earthquake sequence, and frequent and numerous moderate-to-small size earthquake swarms. On 18 April 2021, two earthquakes with ML 5.8 and 6.2, respectively, occurred at Shoufeng, 20 km southwest of Hualien. Even since, uninterrupted earthquake swarms followed from Shoufeng area to the Hualien city for about three months, up to 19 July, swarms continue.

Frequent small-to-moderate-size earthquakes may release minute strain energy for the small asperity or barrier located on the same or different fault zones, however, growing strain energy may also be accumulated at other deeper or nearby unbroken larger size asperities, for the circumstances such as the 1951 and the 2018 events. The frequent and copious Hualien earthquake swarms provide us a great opportunity to test the earthquake preparation, initiation, and migration processes, which are the key elements for the understanding of generation of large earthquakes. We welcome contributions from field investigations, seismology, structure geology, and geodesy, etc., for a better understanding of the nature of the Hualien earthquake swarms.

Guest Editors

- Ruey-Juin Rau
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- Wen-Tzong Liang
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Important dates

- Manuscript submission deadline: ~~February 28, 2022~~ -> **March 31, 2022**
- Revision in final form: August 1, 2022
- Submit to the TAO office: September 1, 2022
- Tentative publication date: October, 2022

How to submit your paper

Register/Log in → Submit New Manuscript → Article Type: Select “**Original Article**” → Section category: Select “**Geophysics**” → Special Collection: Select “**The Hualien earthquake swarms**” → Proceed to finish every step

For more detailed information about submitting your paper, please visit:

<https://www.springer.com/journal/44195/submission-guidelines>

Page Charge

If your paper is on the proposed list of the special issue proposal, please contact the journal office (tao@cgu.org.tw) to get the submission code and its guideline.

If not, please visit "[Fees and Funding](#)" to check the article processing rate.