

Call for Papers

TAO Special Issue on Recent Advances in Geological and Seismic Hazard Investigations for the Taipei Metropolitan Area

Thanks to recent technological advances and their direct applications in exploring the potential geological and seismic hazards, the number of new researches in the Taipei metropolitan area has been increasing in the past few years. Among these new researches: new underground seismometers were installed underneath the Taipei Basin to collect seismic signals avoiding the interference of artificial noises; new offshore reflection and refraction seismic data were collected using Ocean Bottom Seismometer and Multi-Channel Seismic Chirp Sonar for understanding offshore basement structures; new remote sensing techniques such as GPS, InSAR, and LIDAR techniques, are applied intensively to gather detailed and high-resolution ground deformation and topography; new geological investigations were carried out to decipher possible activities of volcanoes using gases emitted underground and petrologic evidence. All the mentioned work would certainly provide a great opportunity for identifying possible geological, seismic and volcanic hazards processes and advise appropriate responses if these potential hazards occur in the Taipei metropolitan region. The purpose of the special issue is to report recent geological and seismic hazards investigations in the Taipei metropolitan area and to stimulate further original and applicable researches. The papers are solicited from prospective authors who are interested in the tectonic environments and the natural hazards which may influence the populated Taipei metropolitan area.

1. Scope

Possible topics of the special issue include, but are not limited to:

- Simulation of major earthquakes
- Detection of seismic scattering sources
- Micro-earthquakes and their significance
- Volcanic characteristics and hazards
- Chemical signals from volcanoes and their implications
- Geomorphic characteristics of major faults
- Ground deformation revealed by GPS, InSAR, or LIDAR-derived DTM
- Offshore fault system investigations
- Other constraints for tectonic models or potential hazards around the Taipei area

2. Submission Information

The deadline for submission is **April 30, 2008**. Manuscripts should be prepared according to the guidelines for contributors indicated in the website of TAO <http://tao.cgu.org.tw/index.php?center=5&level=1&left=5>. Please send manuscripts in pdf files to tara@earth.sinica.edu.tw. All manuscripts will be reviewed according to the standard peer-review procedure of TAO. The reviews are scheduled to return to the authors by **September 15, 2008**. Authors should submit their revised manuscripts and a letter addressing the reviewers' comments and suggestions by **October 31, 2008**. The publication of the special issue in TAO is scheduled for **March, 2009**.

3. Guest editors

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