

THE 9TH FIELD CAMP OF ASIAN CONSORTIUM OF VOLCANOLOGY

ACV-FC9

Cities nearby Volcanoes



DATES	12–17 October 2026
ORGANIZED BY	Asian Consortium of Volcanology (ACV)
HOSTED BY	Taiwan Volcano Observatory – Tatun (TVO) National Center for Research on Earthquake Engineering, National Institutes of Applied Research

ACV-FC9 · TAIWAN 2026

This year, the consortium lands in Taiwan.



Dashed lines show where delegates travel from, not flight paths; each point is a capital city. Land: Natural Earth.

ACV-FC9
THE CONSORTIUM

Background & Objectives

Asia is one of the most densely populated regions on Earth, in people and in volcanoes alike. The Asian Consortium of Volcanology was formed so that the region's volcanologists and disaster-management authorities could face that coexistence together rather than institution by institution.

What ACV does

ACV promotes volcanology across Asia and develops strategies for volcanic disaster prevention through collaboration between researchers and the authorities responsible for public safety. Its central concern is the development and sharing of knowledge among young volcanologists, alongside the exchange of scientific and technical knowledge for volcanic disaster countermeasures — including collaboration with WOVOdat and G-EVER.



Each circle is a city, sized by its population; the red triangle beside it is its best-known volcano, and the red figure is the distance between them.

The Field Camps

What a field camp is for

The field camps exist to encourage learning and exchange between Asian volcanologists. Each camp centres on the interpretation of volcanic observation data across geophysics, geochemistry, geology and petrology. Lecturers and early-career scientists share data from active volcanoes and work through exercises and discussion together to read what that data says about volcanic activity.

ACV-FC9 in Taiwan

The 9th field camp takes the theme Cities nearby Volcanoes. Taiwan offers an unusually direct case: an active hydrothermal complex 15 km from a capital of seven million people, and an active offshore volcano with submarine vents a short sail from the coast. Four days pair lectures and poster sessions with field inspection of both.



ACV-FC9
ORGANIZATIONS

Executive Committee



PRESIDENT

Prof. Masato Iguchi

Kagoshima City Crisis Management Bureau, Crisis Management Division, Japan



SECRETARY GENERAL

Dr. Eisuke Fujita

National Research Institute for Earth Science and Disaster Resilience, Japan

ACV Secretariat: National Research Institute for Earth Science and Disaster Resilience, Japan

ACV Core-Member Organizations

Centre for Volcanology and Geological Hazard Mitigation

China Earthquake Administration

Disaster Prevention Research Institute, Kyoto University

Earth Observatory of Singapore, Nanyang Technological University

National Research Institute for Earth Science and Disaster Resilience

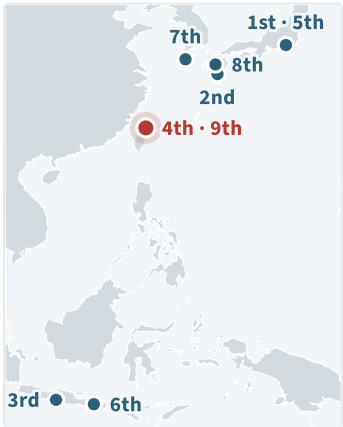
Philippine Institute of Volcanology and Seismology

Taiwan Volcano Observatory – Tatun

The University of Hong Kong

Volcano Specialized Research Center

Past Field Camps



1st	2015	Fujiyoshida, Japan
2nd	2017	Kagoshima, Japan
3rd	2018	Yogyakarta, Indonesia
4th	2019	Taipei, Taiwan
5th	2023	Izu-Oshima, Japan
6th	2024	Bali, Indonesia
7th	2025	Jeju, South Korea
8th	2025	Unzen, Japan
9th	2026	**Tatun & Turtle Island, Taiwan**

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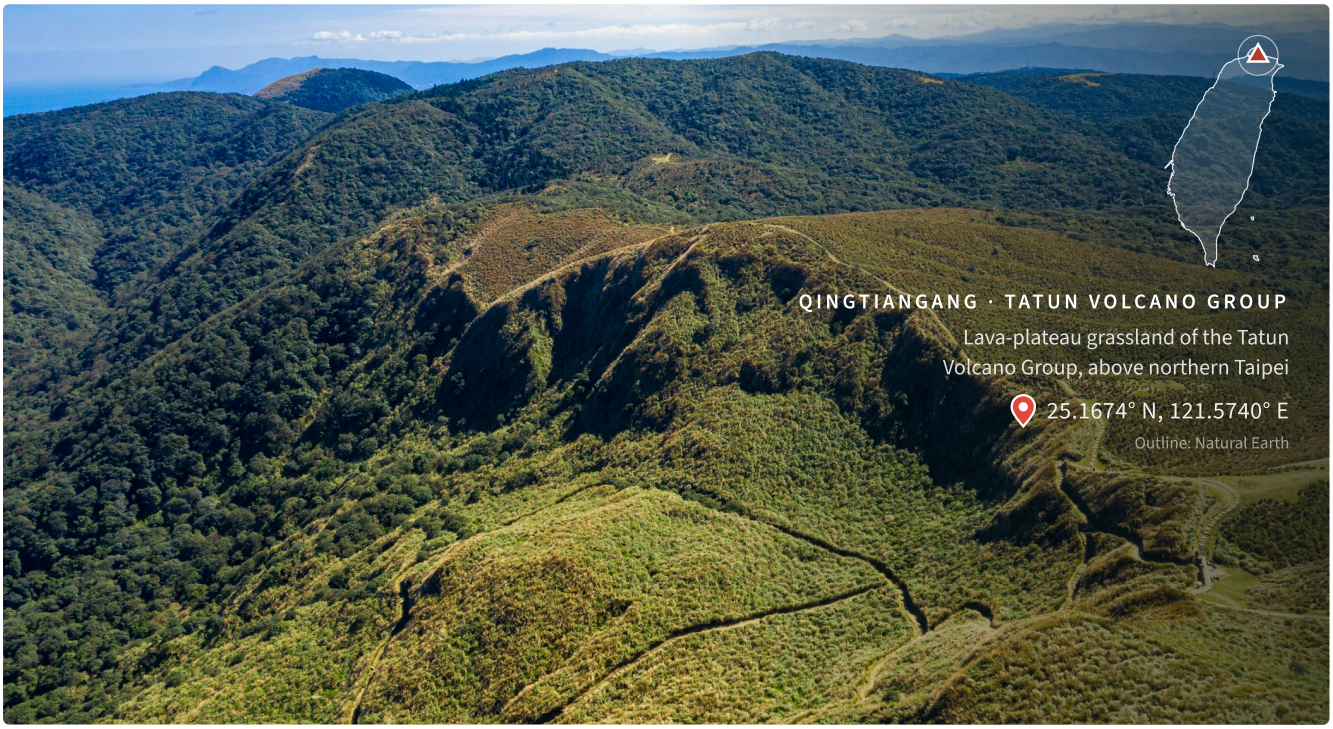
OVERVIEW

About the Field Camp

The 9th Field Camp of the Asian Consortium of Volcanology brings the consortium to Taiwan under the theme **Cities nearby Volcanoes**. Four days pair lecture and poster sessions with field inspection of two contrasting active systems: a hydrothermal complex 15 km from a capital city, and an offshore volcano with submarine vents.



Two Field Systems



Tatun Volcano Group

An active volcanic complex 15 km from central Taipei. The excursion focuses on hydrothermal dynamics, fumaroles and urban hazard monitoring, inspecting the Xiaoyoukeng and Dayoukeng fumarolic fields.



Turtle Island / Kueishantao

Taiwan's active offshore volcano, known for milky-white hydrothermal vents in shallow water. A coastal circumnavigation is followed by an on-island landing and monitoring-station inspection.

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SCHEDULE

EXECUTIVE
PROGRAM

The Week at a Glance

12 MON	TRAVEL	**Arrivals, Hotel Check-in & Registration** Group pick-up from Taiwan Taoyuan International Airport (TPE).	Aloft Taipei Beitou
13 TUE	LECTURES	**Opening Ceremony, Lectures & Poster Session I**	Aloft Taipei Beitou
14 WED	FIELD DAY	**Excursion: Tatun Volcano Group** Transfer to Yilan in the late afternoon. Tatun Volcano Group	OA Hotel, Yilan
15 THU	LECTURES	**Lectures & Poster Session II**	OA Hotel, Yilan
16 FRI	FIELD DAY	**Excursion: Turtle Island & Farewell Dinner** Turtle Island	OA Hotel, Yilan
17 SAT	TRAVEL	**Check-out & Departure** Bus from Yilan at 09:30 via Taipei to the airport.	

Two Field Days



Red — coach route, 14 Oct · Dashed blue — boat, 16 Oct · Lectures at TVO (13 Oct) and the OA Hotel (15 Oct).

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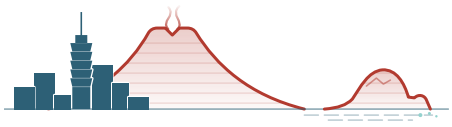
DAY ONE

TUESDAY
13 October



Lectures & Poster Session I

Taiwan Volcano Observatory – Tatun (TVO), Taipei

09:00–09:30	**Opening Ceremony**	**Opening Remarks & Self-introductions**
09:30–10:30	**Talk 1 · Volcanism in Tatun Volcano Group & Turtle Island**	**Prof. Sheng-Rong Song** Department of Geosciences, National Taiwan University, Taiwan
10:30–10:45	Coffee Break	—
10:45–11:30	**Talk 2 · Observations in the Tatun Volcano Group**	**Prof. Cheng-Horng Lin** Institute of Earth Sciences, Academia Sinica / TVO, Taiwan
11:30–12:15	**Talk 3 · Volcanic Hazard Risk Assessment**	**Dr. Yu-Ming Lai** National Taiwan Normal University, Taiwan **Dr. Ming-Chun Ke** National Center for Disaster Reduction, Taiwan
12:15–13:15	Lunch Break	—
13:15–13:45	**Introduction to TVO**	**Taiwan Volcano Observatory – Tatun (TVO)**
13:45–14:25	**Talk 4 · Infrasound Applications in Volcano Monitoring**	**Dr. Benoit Taisne** Earth Observatory of Singapore, Nanyang Technological University, Singapore
14:25–15:10	**Talk 5 · Seismic and Geodetic Signals to Evaluate Volcanic Activity**	**Dr. Eisuke Fujita** National Research Institute for Earth Science and Disaster Resilience, Japan
15:10–15:30	Coffee Break	—
15:30–16:00	**Poster Session: Flash Talks (#01–#10)**	**Designated Presenters**
16:00–17:30	**Free Discussion**	**All Participants**
17:30–18:00	Return to Hotel	—

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FIELD DAY

WEDNESDAY
14 October



XIAOYOUKENG · TATUN VOLCANO GROUP
Collapsed fumarole crater on the flank of Mt. Chinsin, with Taipei below
25.1754° N, 121.5476° E
Outline: Natural Earth

EXCURSION I 08:30–17:00

Field Excursion to the Tatun Volcano Group (TVG)

大屯火山群 · by Dr. Yu-Ming Lai

An active volcanic complex located 15 km from central Taipei. The day focuses on hydrothermal dynamics, fumaroles and hazard monitoring for an urban metropolitan area.

08:30–09:00 — **Heading to TVG**
Departure from hotel (Taipei)

09:00–10:30 — **Longfeng Valley & Sulfur Valley**
Fumaroles, sulfur deposits and acidic hot springs above Beitou

11:10–13:00 — **Xiaoyoukeng (Lunch)**
Landslide scarp on Mt. Chinsin with vigorous fumaroles
On-site inspection of TVO observational infrastructure

14:00–15:30 — **Yehliu Geopark**
Coastal sandstone landforms shaped by erosion, including the Queen's Head and mushroom rocks

15:30–17:00 — **Transfer to Yilan**
Overnight at OA Hotel, Yilan





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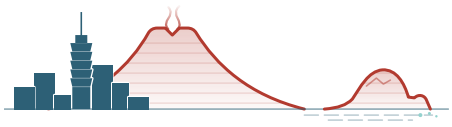
DAY THREE

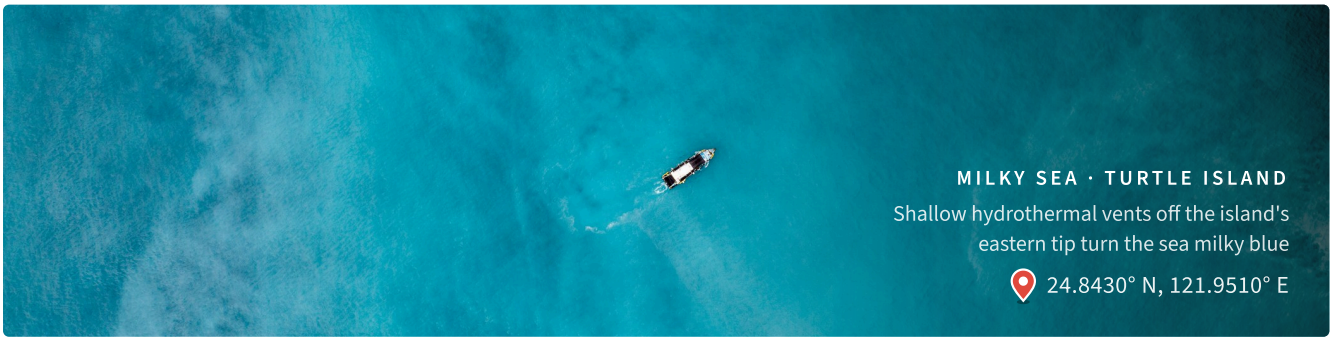
THURSDAY
15 October



Lectures & Poster Session II

Conference Hall, OA Hotel, Yilan

09:00–09:45	**Talk 6 · Volcanic Hazard Countermeasures in Indonesia**	**Dr. Hanik Humaida** Center for Integrated Research and Innovation, Universitas Ahmad Dahlan, Indonesia
09:45–10:30	**Talk 7 · Mineral Detectives: Reconstructing Subvolcanic Processes Using Crystal Zoning**	**Dr. Euan Mutch** Earth Observatory of Singapore, Nanyang Technological University, Singapore
10:30–10:45	Coffee Break	—
10:45–11:30	**Talk 8 · Volcanic Products Analysis Center of Japan**	**Dr. Takahiro Miwa** National Research Institute for Earth Science and Disaster Resilience, Japan
11:30–13:00	Lunch Break	—
13:00–13:40	**Talk 9 · Numerical Simulations and AI Application to Volcanic Hazard Assessment**	**Dr. Takafumi Maruishi** National Research Institute for Earth Science and Disaster Resilience, Japan
13:40–15:10	**Discussion Session · Probabilistic Volcanic Hazard Assessment**	**Dr. Ailsa Naismith** Earth Observatory of Singapore, Nanyang Technological University, Singapore
15:10–15:30	Coffee Break	—
15:30–16:15	**Poster Session: Flash Talks (#11–#25)**	**Designated Presenters**
16:15–17:45	**Free Discussion**	**All Participants**



MILKY SEA · TURTLE ISLAND
Shallow hydrothermal vents off the island's eastern tip turn the sea milky blue
24.8430° N, 121.9510° E

ACV-FC9
FIELD DAY

FRIDAY
16 October



TURTLE ISLAND (KUEISHANTAO)
Active volcanic island off the Yilan coast, where shallow hydrothermal vents turn the sea milky blue

24.8430° N, 121.9510° E

Outline: Natural Earth

EXCURSION II 09:00–15:00

Field Excursion to Turtle Island

龜山島 Kueishantao · by Prof. Sheng-Rong Song

Taiwan's active offshore volcano, famous for the milky-white hydrothermal vents that discolour the shallow ocean off its eastern flank.

09:00–09:40	**Boat Departure from Wushi Harbour**
09:40–10:40	**Guided Geology Boat Tour around Turtle Island** Volcanic sea cliffs, the Turtle Head and the milky-blue hydrothermal plume offshore
10:40–14:10	**Turtle Island (Lunch)** Introduction to the island's geology and visit to monitoring stations
14:10–15:00	**Boat Return to Wushi Harbour**
15:00–17:30	**Exploring Time** Museum visits, informal discussions, or exploring Yilan
17:30–19:30	**Farewell Party** Closing Dinner

Motion sickness medication is recommended for delegates sensitive to boat motion.