



The 3rd field camp of Asian Consortium of Volcanology

Period: November 19 (Mon) – November 22, (Thu), 2018

Venue: Harper Mangkubumi, Yogyakarta, Indonesia

1. Outline

ACV will hold the 3rd training camp to encourage learning and exchanges between Asian volcanologists. This training camp focuses on the interpretation of volcanic observation data in many fields, i.e., geophysics, geochemistry, geology, petrology, etc. Both lecturers and young scientists will share data from active volcanoes and make exercises and discussions to reveal volcanic activity. The contents will be the level for Master, Doctor students. We expect participants from Asian (Indonesia, Philippines, Singapore, China, Taiwan, South Korea, Japan) and other countries.

2. Contents

The training course includes topics related to dome growth and collapse, associated deposits, and simulation of pyroclastic flows and lahars. Each slot contains both lectures and exercises, plus field observations around Merapi volcano. There will be also half a day where the participants will share a dataset or problem they are working in poster format.

3. Participation

ACV will call for the participation on the Web to the public, but the nomination from ACV member organization is requested. At this moment, the number of students will be about 10 - 20, and ACV will support the travel and accommodation fee for selected participants. Financial support from ACV member organizations is appreciated.

4. Schedule

Sunday 18 Nov

Arrival at Yogyakarta

Monday 19 Nov

Opening Ceremony

9:30 Opening remarks: Masato Iguchi

9:35 Greetings from head of CVGHM: Kasbani

Lectures & Exercises

- 9:45-10:30: Outline of Indonesian volcano activity & monitoring by
SATREPS : Masato Iguchi
- 11:00-12:30: Geology around Merapi volcano (Supriyati Andreastuti)
- 13:30-17:00: (including break): Dome forming eruptions, Growth and Stability.
(Tomofumi Kozono, Benoit Taisne)
- 17:00-18:00: Poster session I

Tuesday 20 Nov

- 09:45 - 10:30 Volcanic flows (Christina Widiwijayanti)
- 10:30 - 10:40 Taupo Ignimbrite (Masatoshi Ohashi)
- 10:40 - 11:00 Lava flow: case study of Kirishima volcano (Eisuke Fujita)

Coffee break

- 11:00 - 11:45 Pyroclastic flow & lava flow impacts (Sebastien Biasse)
- 11:45 - 12:30 Poster session II

Lunch break

- 13:30 - 14:15 Lahar (Christina Widiwijayanti)
- 14:15 - 15:00 Case study of Merapi 2010 lahar (Nurnaning Aisyah)

Coffee break

- 15:30 - 16:00 Lahar impacts (Sebastien Biasse)
- 16:00 - 17:00 Poster session III

Wednesday 21 Nov

- 09:00 - 09:15 Background theory of Titan2D (Eisuke Fujita)
- 09:15 - 09:45 Titan2D tutorial: setup DEM & parameterisation (Christina Widiwijayanti)

- 09:45 - 10:00 Titan2D visualization: GMT & Paraview (Christina Widiwijayanti & Eisuke Fujita)
- coffee break
- 10:30 - 17:00 Titan2D simulation (Eisuke Fujita, Christina Widiwijayanti, Sulistiyani, Nurnaning Aisyah, Sebastien Biasse)
- 17:00 - end Discussion on Titan2D simulation results

Thursday 22 Nov

Field trip in the south flank of Merapi, covering pyroclastic & lahar flow deposits and impact (Hanik Humaida et al.)

Friday 23 Nov

Departure from Yogyakarta

4. Presenters of 2018 (Tentative)

1. Introduction & General Volcanology:

Masato Iguchi (Kyoto U.)

Supriyati Andreastuti (CVGHM)

Benoit Taisne (EOS)

Tomofumi Kozono (Tohoku U.)

2. Special topic & exercise: Lahar / Pyroclastic flow simulation (Titan2D)

Sebastien Biasse (EOS)

Christina Widiwijayanti (EOS)

Nurnaning Aisyah (CVGHM)

Sulistiyani (CVGHM)

Eisuke Fujita (NIED)

3. Field trip to Merapi volcano

Hanik Humaida, Kasbani, Wawan Irawan, Hetty Triastuty, Sofie Y. Hendradinata (CVGHM)

08.00 – 09.00:	Trip to Bronggang
09.00 – 09.30:	Discussion of Pyroclastic Flow and Lahar at Bronggang
09.30 – 09.40:	Trip to Bakalan through Gadingan
09.00 – 10.30:	Discussion of Pyroclastic Flow Impact at Bakalan
10.30 – 11.00:	Trip to Pager Jurang Resettlement
11.00 – 12.00:	Case Study on Social impact of eruption at Pager Jurang Resettlement
12.00 – 13.00:	Lunch at Merapi Golf Course (ISHOMA)
13.00 – 13.30:	Trip to the Bunker Kaliadem
13.30 – 14.30:	Eruption Impact on effusive and explosive eruption at Kaliadem
14.30 – 15.15:	Trip to Kaliurang Observatory
15.15 – 15.45:	Discussion of Merapi Monitoring at Kaliurang Observatory
15.45 – 17.00:	Trip to BPPTKG
17.00 – 18.00:	Discussion of Merapi Monitoring at BPPTKG

