

Post-conference field trip (25-27 Feb., 2023)

“Geology and volcanism of the Xalapa Monogenetic Volcanic Field (Veracruz, Mexico)” (3 days, 2 nights)

Departure and return from Mexico City, two nights at the city of Xalapa (Majova Inn Hotel – to be confirmed)

Participants: Minimum 10, maximum 15.

Vehicles: 1 to 2 vans, eight people each, 2 field Ford and Toyota trucks.

Leaders: Rafael Torres-Orozco, Mariana Patricia Jácome-Paz, Juan Ramón de la Fuente Rivera, Katrin Sieron

Objectives: Visiting three out of seven volcano clusters forming the Xalapa Monogenetic Volcanic Field: La Joya-Volcancillo, Naolinco-Acatlán, the Xalapa-Coatepec cluster and Las Cruces tuff ring and Tío Cheve maar. Participants will closely examine pyroclastic and lava flow deposits produced in different Pleistocene to Holocene monogenetic eruptions associated with Arc and OIB-type magmas. During the fieldtrip, participants will have the opportunity to visit the main coffee farm in the area, settled over the flanks of Cerro Roma volcano, and have a taste of the culinary scene of the high-mountains region of Veracruz.

References:

Jácome-Paz, M.P., Torres-Orozco, R., Espinasa-Pereña, R., De la Fuente, J.R., Ruiz Sánchez, J.O., Delgado-Granados, H., 2022. Review of geology and geomorphology of the Xalapa Monogenetic Volcanic Field, eastern Trans-Mexican Volcanic Belt. *Journal of Volcanology and Geothermal Research*, in press (Accepted Oct 4, 2022).

Rodríguez-Elizarrarás, S.R., Morales-Barrera, W., Layer, P., González-Mercado, E., 2010. A quaternary monogenetic volcanic field in the Xalapa region, Eastern of Trans-Mexican volcanic belt: Geology, distribution and morphology of the volcanic vents. *Journal of Volcanology and Geothermal Research* 197 (1-4), 149-166

Sieron, K., Carreto, F., McLeod, O., Guilbaud, M.N., Córdoba-Montiel, F., Cervantes-Pérez, J., 2017. El Campo Volcánico Xalapa: una revisión y análisis. *Observatorio Sismológico y Vulcanológico. UV serva No. 4*

Itinerary

Saturday, February 25:

Departure from Mexico City. Maximum two-hour hike up to El Volcancillo scoria cone, geology and volcanism, and general overview of the northern flanks of Cofre de Perote volcano. Visit to different scoria cones forming La Joya cluster.

Sunday, February 26:

Visit to different scoria cones of the Naolinco-Acatlán cluster: Cerro Órgano, Volcán Acatlán and Cerro el Hoyo. Travel down to the bottom of the Actopan Graben for visiting Cerro Gordo and Cerro Mocho scoria cones. Travel back to the city of Xalapa with few stops for observing deposits of El Castillo ignimbrite.

Monday, February 27:

Early departure for visiting Cerro Macuiltépetl scoria cone. Travel eastwards from the city of Xalapa for visiting Las Cruces tuff ring and Tío Cheve maar. Travel back to Xalapa-Coatepec for visiting Cerro Roma scoria cone and Bola de Oro coffee farm. Visit to Xico “pueblo mágico” town (magic town designation) from where we will have Acamalín volcano view in the background. End of the fieldtrip and travel back to Mexico City.

Cost: Aprox. 300.00 US\$ depending on the No. of participants. Includes transportation, breakfast, lunch boxes, 2 hotel nights, field-guide booklet.