

ENHANCE YOUR EXPERIENCE IN THE FIELD BY CONSULTING THE FOLLOWING LIST OF PEER-REVIEWED LITERATURE:

Eruptive History

Barberi, F., Coltelli, M., Frullani, A., Rosi, M., Almeida, E. (1995). Chronology and dispersal characteristics of recently (last 5000 years) erupted tephra of Cotopaxi (Ecuador): implications for long-term eruptive forecasting. *Journal of Volcanology and Geothermal Research* 69: 217–239.

Seismology and Geophysics

Molina, I., Kumagai, H., García-Aristizabal, A., Nakano, M., Mothes, P. (2008). Source process of very-long-period events accompanying long-period signals at Cotopaxi Volcano, Ecuador. *Journal of Volcanology Geothermal Research* 176: 119–133.

Hazards

Mothes, P., Hall, M., Janda, R. (1998). The enormous Chillos valley lahar: an ash-flow generated debris flow from Cotopaxi volcano, Ecuador. *Bulletin of Volcanology* 59: 233–244.

Mothes, P., Hall, M.L., Andrade, D., Samaniego, P., Pierson, T.C., Ruiz, A.G., Yepes, H. (2004). Character, stratigraphy and magnitude of Historical lahars of Cotopaxi volcano (Ecuador). *Acta Vulcanológica* 16: 85–108.

Petrology and Geochemistry

Hall, M. and Mothes, P. (2007). The rhyolitic-andesitic eruptive history of Cotopaxi Volcano, Ecuador. *Bulletin of Volcanology* 70: 675–702. doi: 10.1007/s00445-007-0161-2.

Looking for publications on Chalupas Caldera?

With the exception of a single Thesis (cited below: Hammersley, E. 03) and a few IAVCEI/ COV abstracts, nothing has been published on the Chalupas ignimbrite.

A COMPREHENSIVE BODY OF LITERATURE PUBLISHED ON COTOPAXI VOLCANO:

Almeida, E. (1995). Flujos de lodo del volcán Cotopaxi: *Revista Geográfica* No. 34. Instituto Geográfico Militar, Quito, p. 153-162.

Aguilera, E., Pareschi, M., Rosi, M. and Zanchetta, G. (2004). Risk from lahars in the northern valleys of Cotopaxi volcano (Ecuador): *Natural Hazards* 33: 161-189.

Barberi, F., Caruso, P., Macedonio, G., Rosi, M. (1992). Reconstruction and numerical simulation of the lahar of the 1877 eruption of Cotopaxi, Ecuador. *Acta Vulcanologica* 2: 35-44.

Barberi, F., Coltelli, M., Frullani, A., Rosi, M., Almeida, E. (1995). Chronology and dispersal characteristics of recently (last 5000 years) erupted tephra of Cotopaxi (Ecuador): implications for long-term eruptive forecasting. *Journal of Volcanology and Geothermal Research* 69: 217–239.

D'Ercole, R. (1989). La catastrofe del Nevado del Ruiz una enseñanza para el Ecuador? El caso de Cotopaxi. In: *Estudios de Geografía*, Quito, Vol. 2.

Egred, J. (1989 Unpublished). Informe sobre la investigación histórica referente a las erupciones de los volcanes Tungurahua y Cotopaxi. In: *Proyecto hidroeléctrico San Francisco: informe final de vulcanología*, República del Ecuador, Ministerio de Energía y Minas, 123 pp.

Egred, J. (2002). Historia de las erupciones del volcán Cotopaxi. *Serie Sismología y Vulcanología Histórica* 1, 131 pp. (IG-EPN)

Garrison, J., Davidson, J., Reid, M., Turner, S. (2006). Source versus differentiation controls on U-series disequilibria: Insights from Cotopaxi Volcano, Ecuador. *Earth Planet. Sci. Lett.* 244 : 548–565.

Hall, M.L. and Yepes, H. (1981). Estudio del fallamiento y la actividad microseísmica del valle de Machachi. *Ecuadorean Commission of Atomic Energy (CEEA)*, 5.

Hall, M.L. (1987). Peligros potenciales de las erupciones futuras del volcán Cotopaxi. In: *Politécnica* 12: 41-80.

Hall, M.L. (2000). Rhyolitic magma body and ascending basic andesites; bimodal Cotopaxi magmatism. *EOS, Transactions* 81 Suppl.: 1309.

Hall, M. and Mothes, P. (2007). The rhyolitic-andesitic eruptive history of Cotopaxi Volcano, Ecuador. *Bull. Volcanol.* 70: 675–702. doi: 10.1007/s00445-007-0161-2.

Hammersley, E. (2003). The Chalupas caldera. PhD Dissertation. Univ. California, Berkeley.

Martinez, A.N. (1933). Contribuciones para el conocimiento geológico de la región volcánica del Ecuador; el Cotopaxi y las montañas volcánicas que le rodean. In: *Pasochoa, Ruminahui, Sincholagua y Quilindana*. Universidad Central, Quito, Ecuador. Vol. 50: 201-222.

Molina, I., Kumagai, H., García-Aristizabal, A., Nakano, M., Mothes, P. (2008). Source process of very-long-period events accompanying long-period signals at Cotopaxi

Volcano, Ecuador. *J. Volcanol. Geotherm. Res.* 176: 119–133.

Mothes, P. (1992). Lahars of Cotopaxi Volcano, Ecuador: hazard and risk evaluation: in McCall, G., Laming, D., Scott, S. (eds), *Geohazards, natural and man-made*: Chapman and Hall, London: 53-64.

Mothes, P., Hall, M., Janda, R. (1998). The enormous Chillos valley lahar: an ash-flow generated debris flow from Cotopaxi volcano, Ecuador. *Bull. Volcanol.* 59: 233–244.

Mothes, P., Hall, M.L., Andrade, D., Samaniego, P., Pierson, T.C., Ruiz, A.G., Yepes, H. (2004). Character, stratigraphy and magnitude of Historical lahars of Cotopaxi volcano (Ecuador). *Acta Vulcanológica* 16: 85–108.

Mullineaux, D. (1976). Reconnaissance study of volcanic hazards from Cotopaxi volcano, Ecuador. In: *USGS Open-File Report*.

Peltre, P. (1989). Riesgos naturales en Quito; lahares, aluviones y derrumbes del Pichincha y del Cotopaxi. In: *Estudios de Geografía, Quito, vol. 2*.

Ruiz, M., Guillier, B., Chatelain, J.L., Yepes, H., Hall, M., Ramon, P. (1998). Possible causes for the seismic activity observed in Cotopaxi Volcano, Ecuador. *Geophys. Res. Lett.* 25: 2305–2308.

Troncoso, L. (2004). Análisis de la actividad sísmica anómala del Volcán Cotopaxi y su vínculo con la sismicidad de la zona de Pastocalle. Periodo 2001-2002. Bachelor Thesis, Escuela Politécnica Nacional, Ecuador.