

Hufstetler, R.S., Smith, H.M., Hooft, E.E. and Walton, D., 2023, December. Strategies for Scientists to Communicate Volcanic Hazard to the Public when Threat of Eruption is Low. In AGU Fall Meeting Abstracts (Vol. 2023, No. 216, pp. V33F-0216).

ABSTRACT

Many studies focus on the best way to communicate volcanic information during a crisis event. Because of the urgency during crisis, many of crisis communication studies find that the issues that arise during volcanic crises can often be mitigated during the 'quiet times' between eruptions. This project addresses how to engage the population near a volcano that is in this period of quiescence. The goal is to synthesize peer-reviewed research that investigates volcano hazard communication when the threat of eruption is low. By doing this, we will provide scientists and others working with the public recommendations for communication materials. This synthesis will offer suggestions from the academic literature for effectively engaging the public in communication about volcanos, what content messages could include, and what mediums are available to reach different audiences. These recommendations are intended to provide a baseline for scientists to think about the multiple ways to engage with the variety of audiences that live around their volcano of study; they are not intended to be a rigid formula that applies to every population. We have systematically gathered peer reviewed articles from Web of Science, Georef, and Google Scholar, using specific search terms generated through consultation with a University of Oregon librarian. Through the use of specific exclusion criteria, we have narrowed down the 330 resulting papers to a final list of 34 studies that provide suggestions on volcano communications during periods of quiescence. This project will use the advice found in these studies to create a reference for scientists as they create communication materials to disseminate to the public regarding a volcano. The results found include different mediums, such as virtual reality, hazard maps, films, social media, and various online tools that a scientist can utilize to convey their findings. There are also recommendations for different audiences, such as tourists, children, rural communities, and indigenous populations. By synthesizing the findings of these studies into a single document for a scientist to reference, we can help scientists to best engage the public in learning about a volcano during quiescence.

Link: <https://ui.adsabs.harvard.edu/abs/2023AGUFM.V33F0216H/abstract>