

Delivering the UN Global Assessment of Risk Report for volcanoes

Charlotte Vye-Brown¹, Mel Auker², Sarah K Brown², Elizabeth Cottrell³, Adele Bear-Crozier⁴, Hugo Delgado Granados⁵, Susanna Jenkins², Sue Loughlin¹, Charles Mandeville⁶, Farrokh Nadim⁷, Chris Newhall⁸, Paolo Papale⁹, Steve Sparks², Shinji Takarada¹⁰

¹British Geological Survey, UK, ²University of Bristol, UK, ³Smithsonian Institution, USA, ⁴GeoScience Australia, Australia, ⁵UNAM, Mexico, ⁶USGS, USA, ⁷NGI, Norway, ⁸EOS, Singapore, ⁹INGV, Italy, ¹⁰Geological Survey of Japan, Japan

E-mail: cvye@bgs.ac.uk

The Global Assessment of Risk (GAR) report is published by the United Nations Office for Disaster Risk Reduction (UNISDR). The report implements the Hyogo Framework for Action (HFA) that aims to substantially reduce disaster losses by 2015 by building the resilience of nations and communities to disasters. The GAR is a 4 year programme to evaluate risk and identify global challenges.

A task force has been created under the umbrella of the Global Volcano Model to deliver the volcanic risk component of the next report, GAR15, to be published in 2015 at the World Disaster Programme meeting. The volcano model will complement other models in the report on: earthquakes, floods, cyclones and extreme weather, tsunamis, exposure and risk. We will build on the methodology employed in the World Bank funded GFDRR report (Aspinall et al. 2011) to evaluate volcanic risk and are working in collaboration with volcanologists worldwide to build this model. This methodology is being modified by a GVM task force on volcanic indices. Volcano data from key databases, such as the database of Smithsonian's Global Volcanism Program and VOGRIPA, will be used to provide a synoptic assessment of global volcanism from a hazard and risk perspective. The volcanological community is encouraged to contribute relevant information or analysis to this study through GVM. Progress towards gathering and analysing information for GAR15 will be presented.

Aspinall, W., Auker, M., Crossweller, S., Hincks, T.K., Mahony, S., Nadim, F., J. Pooley Sparks, R.S.J. and Syre, E. (2011) Volcano Hazard and Exposure in Track II Countries and Risk Mitigation Measures - GFDRR Volcano Risk Study. Bristol University Cabot Institute and NGI Norway for the World Bank: NGI Report 20100806; 309pp, 3 May 2011.