

NEW GVM MEMBERS

GVM welcomes ALVO (La Asociación Latinoamericana de Volcanología), CAPRA (Probabilistic Risk Assessment Program), CIMNE (International Center for Numerical Methods in Engineering), GSA (Geological Society of Australia) and University of Edinburgh as new members.

GVM PRIORITIES

GVM currently has three priority areas of work: (1) to build reliable databases; (2) prepare the the GAR15 report to be delivered by April 2014; (3) Support VOBP2 by combining resources and integrating efforts.

NEW DEVELOPMENTS

- New Volcanic Ash Hazard task force co-led by Adele Bear-Crozier (Geoscience Australia) and Susanna Jenkins (University of Bristol)
- GAR15 task force have distributed questionnaires to volcano observatories to complete the data gathering work phase
- New Volcano Deformation Database task force co-led by Juliet Biggs (University of Bristol) and Matt Pritchard (Cornell University)

Photo 1



GVM AIMS



Photo 2

GVM is a growing international network project with Partners and Sponsors throughout the globe that aims to create a sustainable, accessible information platform on volcanic hazard and risk. GVM will provide systematic evidence, data and analysis of volcanic hazards and risk on global, regional and local scales, and will develop the capability to anticipate future volcanism and its consequences.

GLOBAL ASSESSMENT REPORT 2015

GVM has been formally tasked with producing a synoptic global assessment of volcanic hazard and risk for the Global Assessment Report 2015 (GAR15) by the United Nations Office for Disaster Risk Reduction (UN ISDR). The GAR is a biennial report from the UN ISDR that synthesises information on disasters from natural hazards. The GAR has never before considered volcanic hazards, so this is a great opportunity to draw attention to volcanic hazards and risks and the needs of

The main GAR15 deliverable will be a short high-level report of 12 to 15 pages. The report will comprise many components allowing a basic, though comprehensive review and analysis of global volcanic hazards and risk, with more detailed scientific appendices. GAR reports are highly influential within governments and international agencies and production of the GAR15 assessment of volcanic

responsible national institutions, relevant published literature, application of established models, and information from partners such as GEM. This week questionnaires were distributed to WOVO members to form the basis of the country profiles that will be published in the technical report supporting GAR15. Where there is no WOVO member or the responsibility is unclear either an appropriate institution has been approached or the GAR15 team are compiling the information. The data collected through these

GVM PARTNERS

- ALVO (La Asociación Latinoamericana de Volcanología)
- BGS-NERC (British Geological Survey)
- CAPRA (Probabilistic Risk Assessment Program)
- CIMNE (International Center for Numerical Methods in Engineering)
- EOS (Earth Observatory of Singapore)
- EPOS (European Plate Observing System)
- Geophysical Institute University of Alaska
- Geological Survey of Japan
- GeoScience Australia
- GNS Science (New Zealand)
- GSA (Geological Society of Australia)
- IAVCEI (International Association of Volcanology and Chemistry of the Earth's Interior)
- Icelandic Met Office
- INGV, Italy (Istituto Nazionale di Geofisica e Vulcanologia.)
- IGP (Institut de Physique du Globe de Paris)
- IVHHN (International Volcanic Health Hazard Network)
- Munich RE
- NGI (Norwegian Geotechnical Institute)
- RMS (Risk Management Solutions)
- Seismic Research Centre (UWI)
- SI (Smithsonian Institution)
- SUNY at UB (University of Buffalo)
- UOB (University of Bristol)
- University of Edinburgh
- University of Iceland
- Universidad Nacional Autónoma de México (UNAM)
- USF (University of South Florida)
- USGS (United States Geological Survey)
- USGS: VOBP
- VHUB
- Willis
- WOVO (World Organization of Volcano Observatories)

volcano observatories worldwide. The timetable for the GAR15 study is short and the GVM report on volcanic risk is to be delivered by April 2014.

GVM/IAVCEI/WOVO have nominated an international team of people to take overall responsibility for delivery of this report (the GAR15 team): the Smithsonian Institution, Bristol University (UK), the British Geological Survey, GeoScience Australia (GA), the Geological Survey of Japan, INGV (Italy), the Norwegian Geotechnical Institute (NGI), the New Zealand Natural Hazards Research Platform (led by GNS Science) and the Earth Observatory of Singapore, UNAM, USGS. IAVCEI and its commissions are key partners and WOVO are liaising with and involving Volcano Observatories. But, the team needs the vital input from volcano observatories and other responsible institutions worldwide.

hazard and risk will promote the cause of volcanology and volcanic disaster risk reduction. Such material may be placed on the GAR web site of UN ISDR and can also be disseminated independently via the GVM web site and in separate publications. We are now in the key data gathering stage of the GAR15 project and information is being sought around regions defined by the Smithsonian Institution Global Volcanism Program. A part of the report will comprise regional profiles compiled from data gathered on a country-by-country basis highlighting the volcanic hazards, risks and resources around the world. The main sources of information are established databases and the GAR15 project is mostly about gathering and synthesising existing information.

Additional data is being sought from: volcano observatories and other questionnaires will feed into monitoring capacity analyses, regional synopses and hazard and risk analyses in the GAR15 report. GVM will gather all information by December 2013 with report writing from January to March 2014.

Dr Sarah Brown (Bristol University) acts as secretariat to the GAR15 task force to help make sure that there is good communication and co-ordination of effort.

Dr Gill Jolly (GNS Science) is the liaison for WOVO members. Contact the GAR15 task force by emailing

gar15@globalvolcanomodel.org
For further information see <http://www.globalvolcanomodel.org/gar15.php>



GVM requires long-term funding to become sustainable. Organisations and funding agencies interested in the objective of reducing volcanic risk around the world are encouraged to consider sponsorship.

VOBP2, 2-6 November 2013, Erice, Sicily



The 2nd Volcano Observatory Best Practice (VOBP) workshop will be held in

Erice, Sicily on 2-6 November, 2013. The theme is "Communicating Hazards", and includes many different aspects based on what should be communicated, to whom, when, and in what form? The various topics to be covered will cover aspects such as: how to deal with the media and what the implications are for communication with decision makers, how effective communication with the public and a wide range of stakeholders potentially affected by volcanism can be managed. There will be discussions on communication of knowledge and uncertainties with regard to the relative

values of different types of information (eg monitoring data, eruptive history, modelling, expert interpretation, probabilistic analysis etc) for states of activity. Responsibility is another key topic which will focus on defining the respective roles of volcanologists and decision makers. Finally, discussion on best practice will look at minimum and recommended levels of information to be communicated in times of crises, how uncertainty should be effectively communicated as well as how dissemination of urgent information could be managed and a look at established communication protocols around the world.

Further information is available on the GVM website. Please have a look at the flyer, which outlines the principles and

objectives of the workshop.

The first VOBP workshop, conceived and supported by INGV and USGS, was also held in Erice under the theme "Short-Term Eruption Forecasting". VOBP workshops aim to gather representatives from volcano observatories from all over the world to discuss aspects of observatory activities and work towards the definition of a widely shared international reference frame for their practical management. VOBP workshops are organized through a series of presentations, the scope of which is mainly that of triggering a discussion. A substantial amount of time is dedicated to discussions, so that all participants, either presenting or not, have the same opportunities to impact on the workshop outcomes.



Photo 3

CITIES ON VOLCANOES 8, JOGY INDONESIA

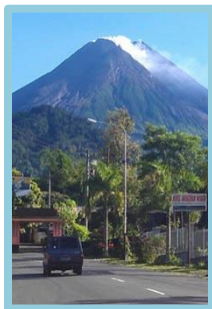


Photo 4

<http://citiesonvolcanoes8.com/>

Cities on Volcanoes 8 will be held 9-13 September 2014 in Yogyakarta, Indonesia.



Photo 5

Theme : Living in Harmony with Volcano : Bridging the will of nature to society

NEW VOLCANIC ASH HAZARD TASK FORCE

We have established a Volcanic Ash Hazard task force as part of GVM. This group will promote probabilistic methods in ash modelling and global assessment of ash hazard and risk and is linked with the IAVCEI Commission on Tephra Hazard Modelling (<http://dbstr.ct.ingv.it/iavcei>). The first and foremost objective of the group will be to carry out an assessment of volcanic ash hazard for the UN ISDR 2015 Global Assessment Report. Specific tasks that will contribute to the Report, at regional and global scales, include:

- Statistical modelling of volcano eruption frequency-magnitude relationships;
- Identification and visualisation of predominant wind conditions (direction and speed) using re-analysis data;
- Regional ash fall hazard assessment for all countries in the Asia-Pacific using a statistical emulator underpinned by computational ash dispersal modelling (Bear-Crozier et al, 2012);
- Global ash fall hazard assessment at relatively high resolution (less than 10 km²) using a numerical ash dispersal model (following the method of Jenkins et al., 2012).

We also recognise that this is a topic with a great deal of activity around the world and so we would like to keep track of other work and initiatives on ash hazard: we invite relevant active research groups or individuals to get in touch.

IAVCEI GENERAL ASSEMBLY 2013



Photo 8 Valentine. Presentations included developments to integrate information on volcanoes from the perspective of forecasting, hazard assessment and risk mapping: databases (e.g. VGP, WOVodat and VOGRIPA); tools for forecasting; tools for assessment of hazard and risk; global, regional and local compilations of volcano information (e.g., vhub.org). Translation of volcano science into forms that are useful and accessible for the public, researchers, decision-makers, governments, international agencies, NGOs and commerce is a goal of GVM, which build upon and take advantage of the volcanology community's growing online collaborative infrastructure at vhub.org, and contributions demonstrating successful transfer of volcano science to decision-making either during a crisis or for planning and preparedness between eruptions.



Photo 6

Kagoshima 2013



Photo 7



Photo 9



Photo 10

Two additional meetings were organised by GVM at Kagoshima:

- GVM hosted a lunchtime meeting to introduce the network and project activities to conference participants. Given the close associations of IAVCEI and IAVCEI commissions such as WOVO with GVM this was a great opportunity to discuss the current and future work plans for GVM,
- The GVM Steering Committee met.



Photo 11



Photo 12

It was great to outreach about GVM to the volcanological community that were represented at IAVCEI and a pleasure to be in the shadow of Sakurajima that put on a marvellous show with multiple eruptions during the conference. The Kagoshima meeting was a great opportunity for GVM partners to meet and move activities and initiatives forward.

DISTRIBUTION OF GVM PARTNERS



Photo 13

CONTACT DETAILS

Professor Steve Sparks, Project Co-PI, University of Bristol steve.sparks@bristol.ac.uk
 Dr Sue Loughlin, Project Co-PI, BGS-NERC, sclou@bgs.ac.uk
 Dr Elizabeth Cottrell, Geologist, Director, GVP, Smithsonian Institution, cottrelle@si.edu
 Dr Sian Crowweller, Research Associate, University of Bristol, Sian.Crowweller@bristol.ac.uk, VOGRIPA
 Martin Nyambil, Database Manager, BGS, Edinburgh, mln@bgs.ac.uk, VOGRIPA
 Mrs Clare Williams, Project Administrator, clare.williams@bristol.ac.uk
 Global Assessment Report 2015 enquiries - gar15@globalvolcanomodel.org

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