EUROVOLC tool for citizen science observations of volcanic phenomena

Laura Sandri1, Evgenia Ilyinskaya2, Melanie Duncan3, Martin Nayembil3, Danilo Reitano4, Sara Barsotti5, Costanza Bonadonna6, Rosella Nave7, Adelina Geyer8, and Jacopo Selva1

1Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Bologna, Bologna, Italy (laura.sandri@ingv.it)
2School of Earth and Environment, University of Leeds, LS2 9JT Leeds, UK
3British Geological Survey (Natural Environment Research Council) Lyell Centre, Edinburgh, UK
4Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Etneo, Catania, Italy
5Icelandic Meteorological Office, Reykjavik, Iceland
6Department of Earth Sciences, University of Geneva, Geneva, Switzerland
7Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Vesuviano, Napoli, Italy
8ICTJA-CSIC, Institute of Earth Sciences Jaume Almera, Barcelona, Spain

One of the aims of EUROVOLC is to raise awareness and share data by exploiting existing tools for hazard and risk. Here we present the ongoing effort within EUROVOLC WP12 to create an online tool to collect information from people witnessing volcanic events at European or other volcanoes.

In the recent past, building on the experience from earthquakes, and from the trans-national effects of Eyjafallajökull eruption, European research groups have built tools (e.g. questionnaires or apps) for facilitating the collection of data by citizens. These efforts are presently fragmented and sparse across Europe (and across the world).

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The new EUROVOLC tool will:
- access and collate data collected by several pre-existing tools. These tools currently include ‘myVolcano’ by British Geological Survey; sulphur dioxide and ash recording tools by Iceland Met Office; Osservatorio Vesuviano web questionnaire & Tefranet by INGV-Catania. These tools were selected based on whether their data can be ‘pulled’ in real-time;
- allow additional tools to be incorporated as they become available;
- allow recording of new data by the users;
- allow visualizing on a map the data in which the users are interested in, that can be selected by region/country, by recording time, or by observed phenomenon;
- allow downloading the data in which the users are interested in

In this way, the users of EUROVOLC tool will have access to observations collected by the multiple tools available across EUROPE through a single access point.

The EUROVOLC tool will become available in July 2020.