



European volcanological supersite in Iceland: a monitoring system and network for the future

Report

D10.6 - "Showcasing" FUTUREVOLC results & outputs

Work Package:	<i>Dissemination, outreach and exploitation of results</i>
Work Package number:	<i>10</i>
Deliverable:	<i>"Showcasing" FUTUREVOLC results & outputs</i>
Deliverable number:	<i>10.6</i>
Type of Activity:	<i>OTHER</i>
Responsible activity leader:	<i>Aoife Braiden</i>
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Type of Deliverable:	<i>Report</i> <input type="checkbox"/>	<i>Demonstrator</i> <input type="checkbox"/>
	<i>Prototype</i> <input type="checkbox"/>	<i>Other</i> <input checked="" type="checkbox"/>
Dissemination level:	<i>Public</i> <input checked="" type="checkbox"/>	<i>Restricted Designated Group</i> <input type="checkbox"/>
	<i>Prog. Participants (FP7)</i> <input type="checkbox"/>	<i>Confidential (consortium)</i> <input type="checkbox"/>

Seventh Framework Programme
EC project number: 308377



Summary

Deliverable 10.6 of FUTUREVOLC relates to Task 10.3 & 10.4 of the project on training and dissemination of outputs from technological development. A series of actions to "showcase" FUTUREVOLC were planned for this deliverable. These included: Convening scientific session at 1-2 large international meetings (AGU, EGU, IAVCEI); 'Showcase' workshop in collaboration with stakeholders, FUTUREVOLC special publication, and TV/film documentary. It was decided during the project that instead of compiling project results into a special volume of one journal or stand alone special publication it would be more effective to publish results in variety of journals, and aim for high level journals for some of the project outcomes. FUTUREVOLC has published so far one paper in Nature, and two in Nature Geoscience that have received widespread attention. These, together with extensive publications of results in various journals replace one special publication. Other showcasing actions planned have been fulfilled.

List of dissemination activities is found at:

<http://futurevolc.hi.is/publications>

(see lists of contributions to conferences and public outreach at the bottom of the page).

Convening of scientific sessions

FUTUREVOLC partners have convened several scientific sessions at international meetings during the project period for showing results from the project.

These include the sessions on the European contribution to the GEO Supersite initiative, convened by the coordinators of the three supersite projects funded by EU (FUTUREVOLC, MED-SUV, and MARSITE), and a special session to showcase FUTUREVOLC results from the Bárðarbunga eruption:

European Geosciences Union, General Assembly 2014

Vienna, Austria, 27 April – 02 May 2014

The European contribution to the GEO Supersite initiative

Conveners: Giuseppe Puglisi, Freysteinn Sigmundsson , Nurcan Meral Ozel

<http://meetingorganizer.copernicus.org/EGU2014/session/15748>

European Geosciences Union, General Assembly 2015

Vienna, Austria, 12 -77 April 2015

The 2014 Bárðarbunga rifting event and associated volcanic eruption

Conveners: Kristin Vogfjord, Olgeir Sigmarsson , Robert S White, Sara Barsotti and Armann Hoskuldsson

<http://meetingorganizer.copernicus.org/EGU2015/session/17853>

The European contribution to the GEO Supersite initiative

Conveners: Giuseppe Puglisi, Freysteinn Sigmundsson , Nurcan Meral Ozel

<http://meetingorganizer.copernicus.org/EGU2015/session/18786>

Important venues to present FUTUREVOLC results also happen after the end of the project, including:

European Geosciences Union, General Assembly 2016

Vienna, Austria, 17 -22 April 2016

The European contribution to the GEO Supersite initiative

Conveners: Giuseppe Puglisi, Freysteinn Sigmundsson, Stefano Salvi, Nurcan Meral Ozel
<http://meetingorganizer.copernicus.org/EGU2016/session/20305>

'Showcase' workshop in collaboration with stakeholders

Showcase workshop for stakeholders was held on 5 November 2015. Information on the meeting is found in Deliverable 1.4, including the programme of the meeting, and list of participants. The outcome of discussions at the meeting is reported in Deliverable 3.4.

Lectures from the meeting are available on Youtube, found by searching there for FUTUREVOLC. Examples include:

FUTUREVOLC: Volcanoes, hazard and FUTUREVOLC - Freysteinn Sigmundsson
<https://www.youtube.com/watch?v=x0Cjy5qnAok>

FUTUREVOLC: Catalogue of Icelandic Volcanoes - Evgenia Ilyinskaya
<https://www.youtube.com/watch?v=hVly2B32cbk>

FUTUREVOLC: Deformation and its role in joint interpretation of volcano behaviour - Andy Hooper
https://www.youtube.com/watch?v=7_hsXPOo05o

FUTUREVOLC: Innovations in eruption detection – Infrasound - Maurizio Ripepe
<https://www.youtube.com/watch?v=UstfSnieOmA>

FUTUREVOLC: State of the art in monitoring Icelandic volcanoes PART1 - Sara Barsotti
<https://www.youtube.com/watch?v=pomF3HuF6kc>

FUTUREVOLC: State of the art in monitoring Icelandic volcanoes PART2 - Matthew J. Roberts
https://www.youtube.com/watch?v=yEy-BZzY_rE

5th European Civil Protection Forum 6-7 May 2015 in Brussels

An additional activity related to civil protection stakeholders in Europe was the participation of FUTUREVOLC in the 5th European Civil Protection Forum 6-7 May 2015 in Brussels. This Forum is organized every two years by the European Commission's Humanitarian Aid and Civil Protection department (ECHO). In 2015 it brought together close to 900 participants from governments, academia, civil protection authorities, first emergency responders, international organizations, European Institutions and stakeholders. The central theme of the forum was '*Partnership and Innovation*'.

http://ec.europa.eu/echo/partnerships/civil-protection-partners/civil-protection-forum_en

The Icelandic Civil Protection, in collaboration with the Icelandic Meteorological Office, had a display booth at the Forum, including a presentation of the FUTUREVOLC project. Víðir Reynisson, Head of the Department of Civil Protection and Emergency Management under the National Commissioner of the Icelandic Police, explained the added value of participating in the EU Civil Protection Mechanism and the role of FUTUREVOLC in this respect at Forum, including a short interview:

<https://youtu.be/YwDovYQwMTg>

Special publications

As explained in the summary, it was decided during the project that instead of compiling project results into a special volume of one journal or stand alone special publication it would be more effective to publish results in variety of journals, and aim for high level journals for some of the project outcomes.

Publications in Nature and Nature Geoscience include:

Freysteinn Sigmundsson, Andrew Hooper, Sigrún Hreinsdóttir, Kristín S. Vogfjörð, Benedikt Ófeigsson, Elías Rafn Heimisson, Stéphanie Dumont, Michelle Parks, Karsten Spaans, Gunnar B. Guðmundsson, Vincent Drouin, Thóra Árnadóttir, Kristín Jónsdóttir, Magnús T. Guðmundsson, Thórdís Högnadóttir, Hildur María Friðriksdóttir, Martin Hensch, Páll Einarsson, Eyjólfur Magnússon, Sergey Samsonov, Bryndís Brandsdóttir, Robert S. White, Thorbjörg Ágústsdóttir, Timothy Greenfield, Robert G. Green, Ásta Rut Hjartardóttir, Rikke Pedersen, Rick Bennett, Halldór Geirsson, Pete LaFemina, Helgi Björnsson, Finnur Pálsson, Erik Sturkell, Christopher J. Bean, Martin Möllhoff, Aoife Braiden, and Eva P.S. Eibl, **Segmented lateral dyke growth in a rifting event at Bárðarbunga volcanic system, Iceland**, *Nature*, 517, 191–195, doi:10.1038/nature14111, 2015 (Online 15 December 2014).

<http://www.nature.com/nature/journal/v517/n7533/abs/nature14111.html>

Green, R. G., T. Greenfield, and R. S. White (2015), **Triggered earthquake suppressed by an evolving stress shadow from a propagating dyke**, *Nat. Geosci.*, 8, 629–632, doi:10.1038/ngeo2491.

<http://www.nature.com/ngeo/journal/v8/n8/full/ngeo2491.html>

Bean, C.J., L. De Barros, I. Lokmer, J.P. Metaxian, G. O'Brien, S. Murphy, 2014. **Long-period seismicity in the shallow volcanic edifice formed from slow-rupture earthquakes**, *Nature Geoscience*, 7, 71-75. doi: 10.1038/ngeo2027

<http://www.nature.com/ngeo/journal/v7/n1/full/ngeo2027.html>

TV/film documentaries

The six month long eruption in the Holuhraun area in the Bárðarbunga volcanic system from the beginning of September 2014 to end of February 2015 provided major opportunities for participating in TV/film documentaries. Many FUTUREVOLC partners appeared on world-wide news in relation to the eruption. Some involvement in documentaries provided good showcasing of FUTUREVOLC.

Example of documentaries include:

National Geographic documentary on “Volcano Super-Team Studies Iceland Eruptions”. Available on Youtube:

<https://www.youtube.com/watch?v=vefoR9L2WmQ>

BBC documentary on “Journey into an Icelandic volcano”, also available on Youtube:

<https://www.youtube.com/watch?v=HTzspdFJQFA>

RMC documentary in France “Bardarbunga, le reveil d’un géant”, produced by Saint Thomas Productions.

<http://www.saint-thomas.net/fr-news-111-bardarbunga-le-reveil-d-un-g-ant-avant-premiere-sur-rmc.html>