

EUROVOLC PROJECT

TRAINING COURSE

VOLCANBOX: a systematic methodology and e-tools set to conduct long- and short-term volcanic hazard assessment

Coordinator: Dr. Joan Marti

Dates: September 23-27, 2019

Place: Technological Center of Vilanova i La Geltrú, Technical University of Catalonia, Rambla de l'Exposició, 24, 08800 Vilanova i la Geltrú, (Barcelona, Spain)

https://www.upc.edu/sct/en/centre_7_centro-tecnologico-vilanova-geltru.html

Maximum number of participants: 20

Scope: This is a training course on the use of VOLCANBOX. VOLCANBOX is a specific methodology (see Marti, 2017) and a set of e-tools (Felpeto et al., 2010; Sobradelo et al 2013, 2014; Bartolini et al., 2013; 2018; Scaini et al 2014) to conduct long- and short-term volcanic hazard assessment which were developed as part of the VeTOOLS project, funded by Civil Protection Unit of the European Union, by the Group of Volcanology of Barcelona (CSIC, Spain). VOLCANBOX consists of an integrated software multi-platform specially designed to assess volcanic hazard, as well as assess and manage volcanic risk. This system facilitates the interaction and cooperation between scientists and Civil Protection Agencies in order to share, unify, and exchange procedures, methodologies and technologies to effectively reduce the impacts of volcanic disasters by improving assessment and management of volcanic risk. For this reason, this course is addressed to post-graduate, doctorate and post-doctorate students, members of volcano observatories, and Civil Protection experts interested or working on volcanic hazard assessment and management of volcanic crisis. The course will offer a description of the general concepts and methodologies that are behind VOLCANBOX and will train participants in the use of the different tools that it contains, offering some examples on their use and on the limits of its applicability.

Preliminary program:

Monday, September 23, 2019

Theoretical introduction to the methodology for conducting long- and short—term volcanic hazard assessment

Introduction to the VOLCANBOX platform and its tools

Tuesday, September 24, 2019

Spatial analysis. Introduction to the use of the QVAST tool.

Presentation of working examples and analysis of data

Execution of case studies.

Wednesday, September 25, 2019

Temporal analysis. Introduction to the use of the HASSET tool.

Presentation of working examples and analysis of data

Execution of case studies.

Thursday, September 26, 2019

Simulation models. Introduction to the different simulation models for the different volcanic hazards

Presentation of working examples and analysis of data

Execution of case studies.

Friday, September 27, 2019

Short-term hazard assessment. Introduction to the use of ST-HASSET

Presentation of working examples and analysis of data

Execution of case studies.

Vulnerability analysis. Introduction to use of VOLCANDAM

Presentation of working examples and analysis of data

Execution of case studies. Elaboration of eruption scenarios.

Cost-Benefit analysis. Introduction to BADEMO

Presentation of working examples and analysis of data

Execution of case studies. Elaboration of eruption scenarios.

Registration

Deadline for registration is July 31, 2019

The Volcanbox Course has a registration fee of 250 euros. Payment should be made in euros and by bank transfer to:

BANCO DE SANTANDER

IBAN ES85 0049 4766 4621 1604 1826

SWIFT: BSCHEM33

Reference: Volcanbox Course and name and surname of the person to be registered.

In order to prepare the corresponding invoice we will need:

- a) in case of making the payment of the registration from an Institute, University or Research centre: official document indicating either its VAT number or ID number, depending on the country.

b) in case of making the payment of the registration directly by the participant to the course: NIF number in case of being Spanish, or the tax identification number (NOT the passport number) in case of coming from another country.

Travel

Participants should arrive in Vilanova i La Geltru by Sunday 22nd of September and leave by Saturday 28th of September.

Vilanova i La Geltru is located 50 km south of Barcelona and 30 km south of Barcelona Airport and can be reached from there by car, bus, train, or taxi.

By train:

From Barcelona:

Cercanias Renfe from the stations of Clot-Aragó, Passeig de Gracia or Sants (all in Barcelona city), line C2 Barcelona - Sants - Vilanova - Sant Vicenç

Also on Renfe Regional trains, from the Estación de Francia (Barcelona city), to Lleida and stop at Vilanova i la Geltrú.

From El Prat Airport (Barcelona):

Train Airport to El Prat station, and transfer with Renfe Cercanias trains line C2 Barcelona - Sants - Vilanova - Sant Vicenç (SEE SCHEDULES HERE: <https://www.aeropuertobarcelona-elprat.com/cast/accesos-aeropuerto-tren-4010.htm>)

By bus:

please see information here: <https://www.monbus.cat/en/lines/>

Accommodation

Participants are responsible for arranging their own accommodation. There are some hotels in Vilanova i La Geltru, but also a large number of apartments and guest rooms in private houses:

<http://hotelceferino.com/>

<http://www.hotelcesar.net/>

<http://www.solvihotel.com/es/inicio>

<http://es.hotelribesroges.com/>

<http://www.hotel-ricard-vilanova-i-la-geltru.barcelona-vive.com/es/>

<http://www.gatellhotel.com/es/hotel-vilanova-la-geltru>