



2nd European VOs-VAACs Workshop

8-10 November 2021 (on-line)

The eruptions of Eyjafjallajökull in 2010, Cordon Caulle in 2011, Kelud in 2014, and Etna in 2021 revealed the need for reinforcing the dialogue between Volcano Observatories (VOs) and Volcanic Ash Advisory Centers (VAACs) for a more effective operational response during volcanic crises. Acknowledging that successful emergency response relies on community build-up and coordination, several initiatives have taken place in recent years to clarify roles and responsibilities, facilitate the sharing of data and information, design best practices and benefit from reciprocal exchanges and lessons learned. This is an ongoing process and VOs, VAACs, Volcano Research Infrastructures (VRIs) and aviation end-users worldwide need to continue to build trustful relationships to consolidate and optimize ways of working together. Consequently, we would like to invite you to the 2nd European VO-VAAC Workshop that will be organized as a virtual event on November 8-10, 2021. The event is co-sponsored by the European projects EUROVOLC (<https://eurovolc.eu/>) and EPOS-SP (<https://www.epos-eu.org/epos-sp-project>).

Main objectives of the workshop

1. Review the operational procedures and strengthen the collaboration between VOs and VAACs in Europe; identify where and how advances have been achieved; discuss the new expected version of the VONA (Volcano Observatory Notification for the Aviation);
2. Demonstrate new research findings concerning the estimation of the eruption source parameters (e.g. plume height estimates, ash cloud detection and retrieval, impact of volcanic shock-waves on aircraft); identify gaps and limitations in moving these estimation techniques into operational processes; show the latest efforts in database collection needed for a long-term hazard evaluation;
3. Review and update good practices for responding to volcanic eruptions; produce a consensual document that describes the state of art, current limitations and future advancements; produce a roadmap for future changes and improvements.

Organizing Committee

Sara Barsotti, Icelandic Meteorological Office (EPOS-SP, EUROVOLC)

Simona Scollo, Istituto Nazionale Geofisica e Vulcanologia (EPOS-SP, EUROVOLC)

Lucia Gurioli, Université Clermont Auvergne - OPGC (EUROVOLC)

Franck Donnadieu, Université Clermont Auvergne - OPGC (EUROVOLC)

Claire Witham, UK Met Office (EUROVOLC)

Further information

Go to the website of the EUROVOLC project: <https://eurovolc.eu/>

Go to the website of the EPOS-SP project: <https://www.epos-eu.org/epos-sp-project>

Go to the website of the previous VO-VAAC workshop: https://eurovolc.eu/?page_id=818

Preliminary agenda

8.11.2021 - DAY1 (4 hours): *Procedures and operations*

Time slot (UTC)	Title	Presenter
13:00-13:10	Welcome and introduction	Sara Barsotti (IMO)
13:10-13:30	Roadmap: accomplished results from the 1st VO-VAAC workshop	Claire Witham (with contributions from EU VOs) (Uk MetOffice)
13:30-13:50	Procedures and plans at Toulouse VAAC	Philippe Hereil (Toulouse VAAC)
13:50-14:10	Procedures and plans at London VAAC	Anton Muscat (London VAAC)
14:10-14:30	Procedures and plans at Montreal VAAC	Dov Bensimon (Montreal VAAC)
14:30-14:45	coffee	
14:45-15:05	Procedures and plans at Washington VAAC	Jamie Kibler (Washington VAAC)
15:05-15:20	Jan Mayen volcano: current procedures	Lars Ottemoller (Uni Bergen)
15:20-15:35	Volcanoes in the Dutch Caribbean: current procedures	Elske van Zeeuw de-Dalfsen (KNMI)
15:35-15:55	Volcanoes in Africa: current procedures	<i>To be finalized</i>
15:55-17:00	Discussion	

9.11.2021 - DAY2 (4 hours): *Research and implementation into operations*

Time slot (UTC)	Title	Presenter
13:00-13:20	Volcanic hazards to aviation: ash	Rory Clarkson (Rolls Royce)
13:20-13:40	Volcanic hazards to aviation: SO ₂	Nina Kristiansen (Uk MetOffice)
13:40-14:00	Volcanic hazards to aviation: shock-waves	Matteo Cerminara (INGV)
14:00-14:20	Networking activity in Europe: Earlinet, Actris	Lucia Mona (CNR)
14:20-14:35	coffee	
14:35-14:55	Operational plume height estimates	Talfan Barnie (IMO)/ Simona Scollo (INGV)
14:55-15:15	Operational MER estimates	Frank Marzano (Ground-based) (Uni Roma) Mathieu Gouhier (Satellite) (OPGC)
15:15-17:00	Discussion	

10.11.2021 - DAY3 (4 hours): *Good practices and future steps*

Time slot (UTC)	Title	Presenter
13:00-13:20	Database: IVESPA	<i>To be finalized</i>
13:20-13:40	Database: European Catalogue of Volcanoes	Lucia Gurioli (OPGC) / Sara Barsotti (IMO)
13:40-14:00	EPOS platform	Giuseppe Puglisi (INGV)
14:00-14:20	IAVCEI roadmap: towards a new WOVO	Patrick Allard (IPGP-IAVCEI)
14:20-14:35	coffee	
14:35-14:55	ICAO roadmap	Jonathan Dutton (Uk MetOffice/MOG WG)
14:55-16:30	Discussion	
16:30-17:00	Closure and final remarks	