

Annual Report 2023 for the Joint IACS/IAVCEI Volcano–Ice Interactions Commission

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The main goals of the Joint IACS/IAVCEI Volcano-Ice Interactions Commission (VIIC) are to promote research related to the field of glaciovolcanism, support sessions at international conferences, and foster connections between members of the volcanology and cryospheric science communities. We aim to promote the use of glaciovolcanism for understanding environmental and landscape change, volcanic eruption processes, and volcanic and cryospheric hazards.

Main activities in 2022–2023:

- Associated with the January 2023 IAVCEI Scientific Assembly in Rotorua, New Zealand, Conway and Cole contributed to organizing and leading pre- and post-conference field trips to glaciovolcanic landforms and deposits at Tongariro and Ruapehu volcanoes. A report on the field trips (in English) is included in an overview (in Japanese) of the conference that has been published in Volume 68, Issue 2 of the Bulletin of the Volcanological Society of Japan (available online soon at: <https://www.jstage.jst.go.jp/browse/kazan/list/-char/ja>).
- We hosted a meeting during the IAVCEI Scientific Assembly, to introduce conference attendees to activities of the VIIC, and attended a meeting for all IAVCEI commission leaders.
- VIIC leaders and members contributed as editors, reviewers, and authors for a special topic on glaciovolcanism in *Frontiers in Earth Science* (<https://www.frontiersin.org/research-topics/29021/linking-subaqueous-subglacial-and-subaerial-volcanism-how-water-influences-eruption-dynamics-and-creation-of-volcanic-products#articles>).
- We have continued to hold our virtual seminar series, half of which have been presented by early career researchers. Recordings of each seminar are also posted on our YouTube channel, which is accessible for registered participants. We are currently developing a workflow to translate the recordings into Spanish.
- The VIIC twitter account (@volc_ice) and website (<https://viic.iavceivolcano.org>) have been maintained over the last year. A list of relevant new publications on the website has been recently updated (<https://viic.iavceivolcano.org/recent-publications>).

Upcoming activities:

- VIIC co-leaders are convening a joint IACS/IAVCEI session at the IUGG General Assembly on 17 July 2023 (JV01: Volcano–Ice Interactions).
- We have designed a strategy to curate an online photo gallery of glaciovolcanic landforms and deposits in collaboration with the Global Volcanism Program of the Smithsonian Institute.
- We will host two more online seminars during 2023.
- We will hold an election in August 2023 to select new IAVCEI co-leaders to replace Cole, Conway, and Fitch. IACS co-leaders (Eaves, Soteres) will continue in their roles for one more year.