

## **Description of Additional Supplementary files**

Filename: Supplementary Movie 1

Description: A view from a drone into a crater at the 2021 Fagradalsfjall eruption, showing the transition from lava pond convection to low-intensity fountaining. Video by Leon Frey.

Filename: Supplementary Movie 2

Description: A view from a drone of the 2021 Fagradalsfjall eruption, showing moderate intensity fountaining feeding lava flows. Video by Leon Frey.

Filename: Supplementary Movie 3

Description: A view from a drone of the 2021 Fagradalsfjall eruption, showing 'lava flood' phenomena documented herein. Video by Leon Frey.

Filename: Supplementary Movie 4

Description: A view from a drone of the 2021 Cumbre Vieja eruption, showing a combination of thermal (right) and optical (left) video of braided lava channels around critical infrastructure. Video by DataDron and INVOLCAN.

Filename: Supplementary Movie 5

Description: A view from a drone of the 2021 Cumbre Vieja eruption, showing a combination of thermal (right) and optical (left) video of braided lava channels around critical infrastructure including the evolution of the new lava delta. Video by DataDron and INVOLCAN.