

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Time-lapse movie of RÚV camera footage between 14:59–15:59 GMT on 5 May 2021, during the FTIR measurement period. Yellow line in the top panel shows the fountain 'height'. The bottom panel shows the height of the fountain as a function of time. Overflows from the lava lake are visible during the fountaining. This is followed by draining and decrease in the height of the lava lake by ~10 m in between the fountaining events