



SUPPLEMENTARY MATERIAL 2. **A**, lacuna (red arrow) through which a current of cool air emanated from below the surface of rhyolite sand at Mono Craters (see text); **B**, a FLIR (forward-looking infrared) camera image taken at 11:40 on 31 August 2013 showing the high contrast in temperatures between the surface of rhyolite sand on the slope and the cool air emanating from the lacuna at Mono Craters.