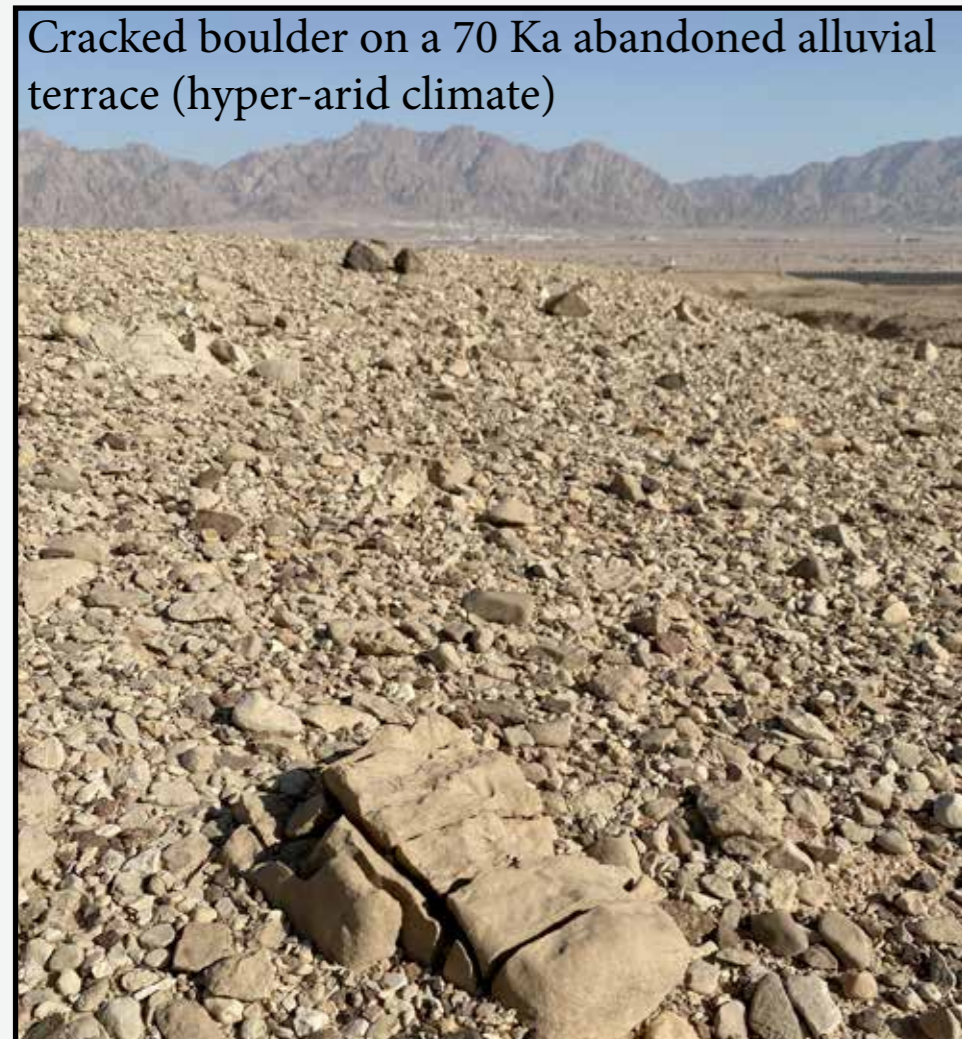
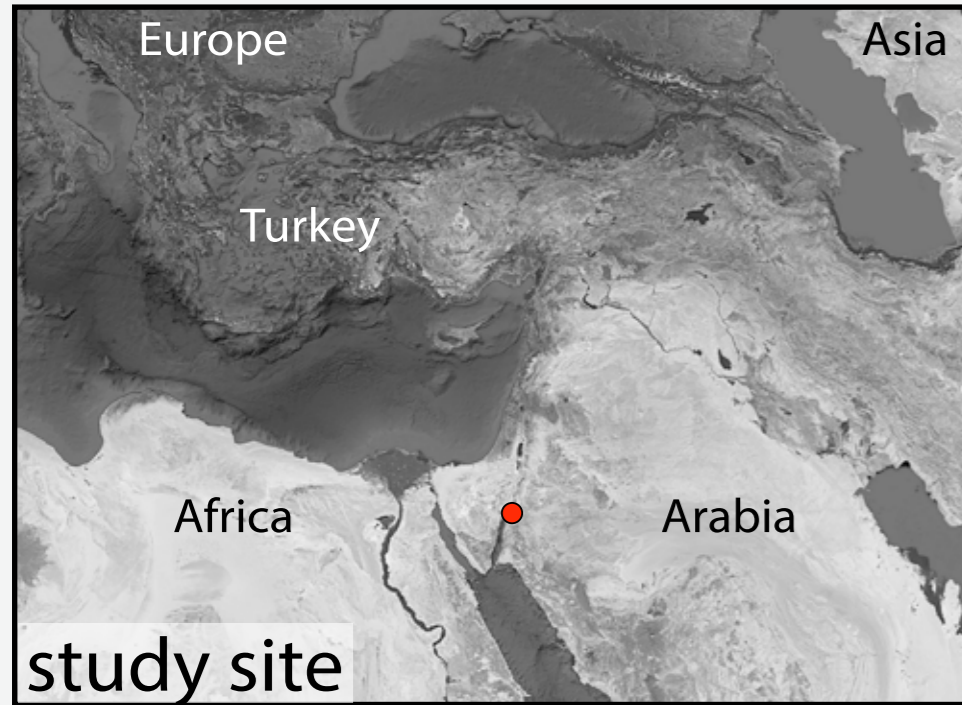


# Weathering zonation within cracks in desert boulders reveals piecemeal crack propagation over geologic timescales

Uri Shaanan<sup>1</sup>, Amit Mushkin<sup>1</sup>, Amir Sagy<sup>1</sup>, Monica Rasmussen<sup>2</sup>, Martha-Cary Eppes<sup>2</sup>

(Geological Survey of Israel<sup>1</sup>, University of North Carolina at Charlotte<sup>2</sup>)



**Characteristic zones of propagating subcritical cracks form evidence for chemical activity along cracks, indicating piecemeal subcritical crack propagation**

**No evidence for inherited weakness plane ahead of crack tip**

