

## Description of Additional Supplementary Files

**Supplementary Movie 1:** The complete, continuous strain evolution represented on the map. The time-dependent horizontal strain rate tensor at the surface is calculated by modeling the observed displacement with elementary cuboid sources

Left-hand panel of the movie was generated with Generic Mapping Tools.

From: Wessel, P. *et al.* The Generic Mapping Tools Version 6. *Geochemistry, Geophysics, Geosystems* **20**, 5556–5564 (2019).