

Supplementary Information

Hydrothermal fluid flow triggered by an earthquake in Iceland

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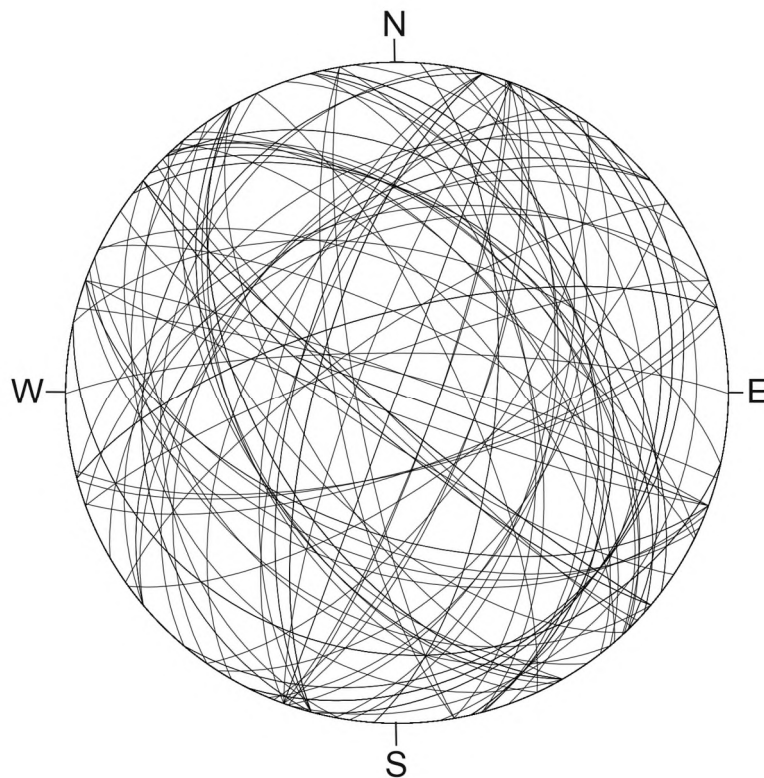
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Supplementary Note 1

Nodal planes from the Nupshlidarhals earthquake swarm

We report in Figure 2 the nodal planes from the short-duration Nupshlidarhals seismic swarm, extracted from 64 events whose averaged magnitude is ~ 1 . Each plane is potentially a shear plane. Although epicenters distribution are clearly along a NS trend (Fig. 3 in the manuscript), corresponding to the trend of the active dextral strike-slip faults, the nodal planes do not follow this orientation. This suggests that a brecciated fault-zone is reactivated by pressurized fluids.



Supplementary Figure 1. Nodal planes from the Nupshlidarhals seismic swarm focal mechanisms using the FPFIT program¹ (lower hemisphere projection).

Supplementary References

1. Reasenber, P. & Oppenheimer, D. FPFIT, FPLOT and FPPAGE: Fortran computer programs for calculating and displaying earthquake fault-plane solutions. USGS Open-File Report 85-739 (1985)