README

ZonedInversions/

Folder containing results of inversions in 99 discrete zones.

The 99 zones are intended to be mutually exclusive polygons, each with ~25+ focal mechanisms.

Currently, a few may overlap in small regions, and some have 20–25 mechanisms instead of the desired 25.

For each of 99 zones, select crustal focal mechanisms within zone.

For each of 101 inversions, jackknife-downsample, add noise to retained mechanisms, choose random friction, do iterative joint inversion for focal/auxiliary planes and stress.

Output results: Longitude Latitude Aɸ σHmax

Uncertainties are defined from the distribution of 101 inversion results

AKZones

Ascii file containing inversion results

Format (compatible with gmt psxy): Longitude, Latitude (averages of epicenters) Aɸ σHmax Length

Longitude/Latitude – averages of epicenters

Aɸ, σHmax: median of 101 inversions

Length: 0.6, set for plotting in GMT

AKZones\_lowmin

Ascii file containing inversion result confidence limits

Format: Longitude, Latitude (averages of epicenters) Aɸ\_low σHmax\_minimum Length

Longitude/Latitude – averages of epicenters

Aɸ\_low: 16th percentile (~ -1 std) lower bound from 101 inversions

σHmax\_minimum: 5th percentile (~ -1.65 std) lower bound on azimuth from 101 inversions

AKZones\_highmax

Ascii file containing inversion result confidence limits

Format: Longitude, Latitude (averages of epicenters) Aɸ\_high σHmax\_maximum Length

Longitude/Latitude – averages of epicenters

Aɸ\_high: 84th percentile (~ +1 std) upper bound from 101 inversions

σHmax\_maximum: 95th percentile (~ +1.65 std) upper bound on azimuth from 101 inversions

Length: 1.0, set for plotting in GMT