Rapid Response efforts in rifts – volcanic eruptions, dike intrusions, and large earthquakes – Tijuana EQ, EAR

Dike intrusions in particular characterized by ML < 5 EQ's – generally not considered for rapid response– dike dimensions; track magma movement; aftershocks illuminate fault/dike dimensions

Space-based geodesy (GPS, InSAR) – measure stress diffusion rates and vertical/ horizontal crustal movements – determine mantle viscosity to rapid opening.

Keir et al., figure 3

CONSTRAIN RHEOLOGY, DIMENSIONS, ASEISMIC/SEISMIC STRAIN, MAGMA-VOLATILE FLUXES

