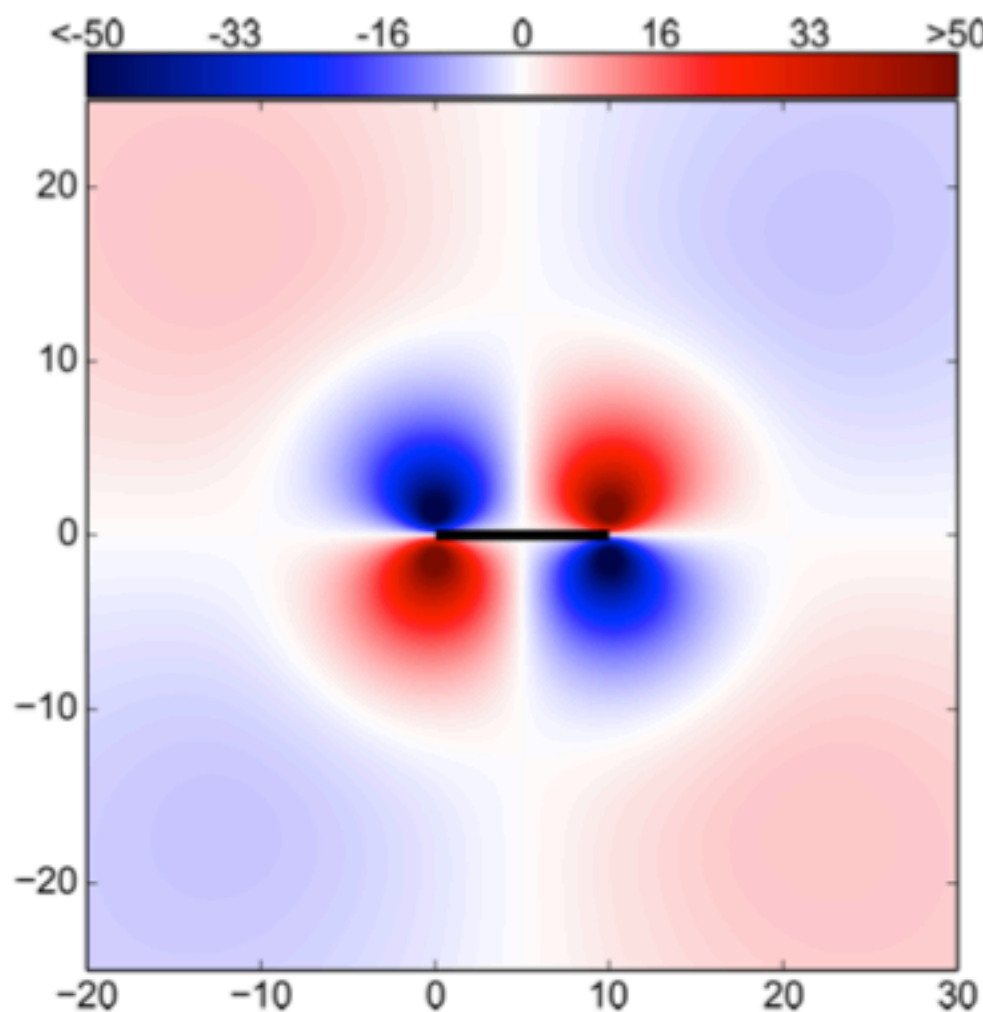


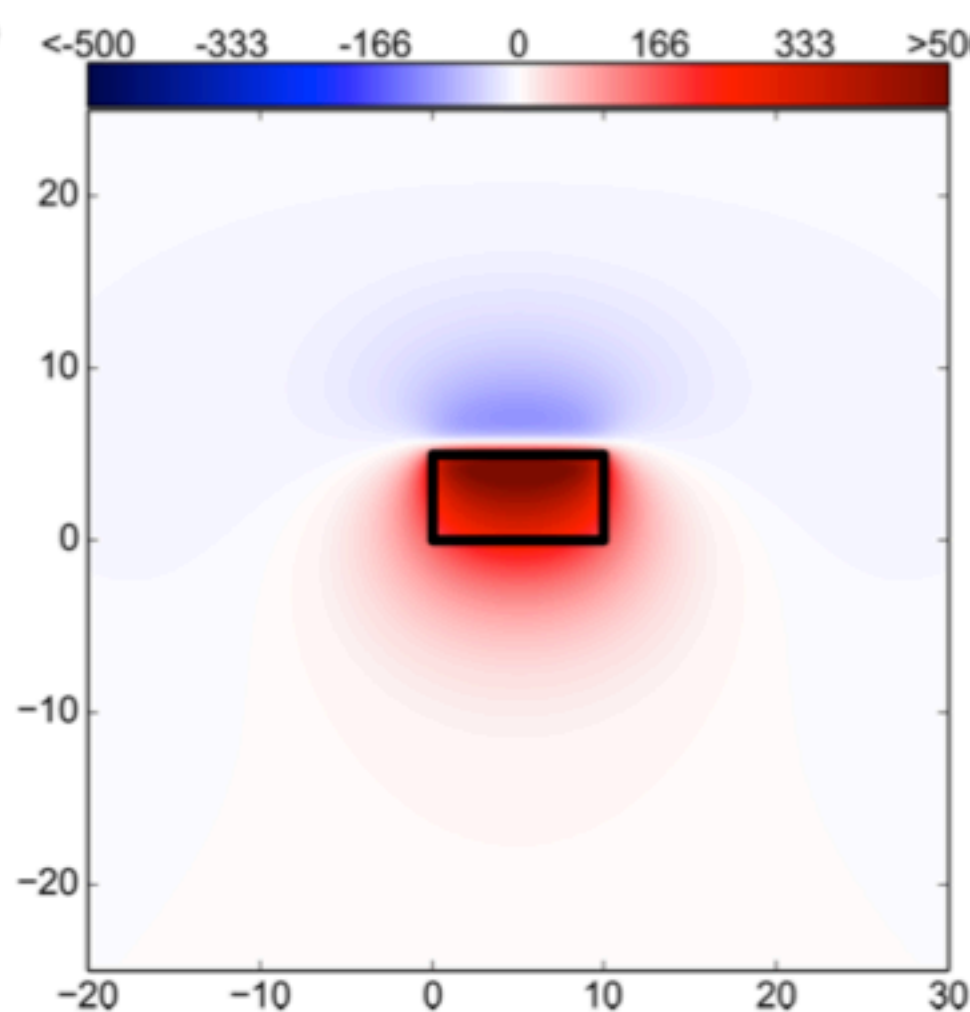
Okubo's [1992] Surface Gravity Changes

$$\Delta g(\mathbf{r}, \mathbf{s}) = \{\rho G[U_1 S_g(\xi, \eta) + U_2 D_g(\xi, \eta) + U_3 T_g(\xi, \eta)] + \Delta \rho G U_3 C_g(\xi, \eta)\} \parallel -\beta \Delta h(x_1, x_2)$$

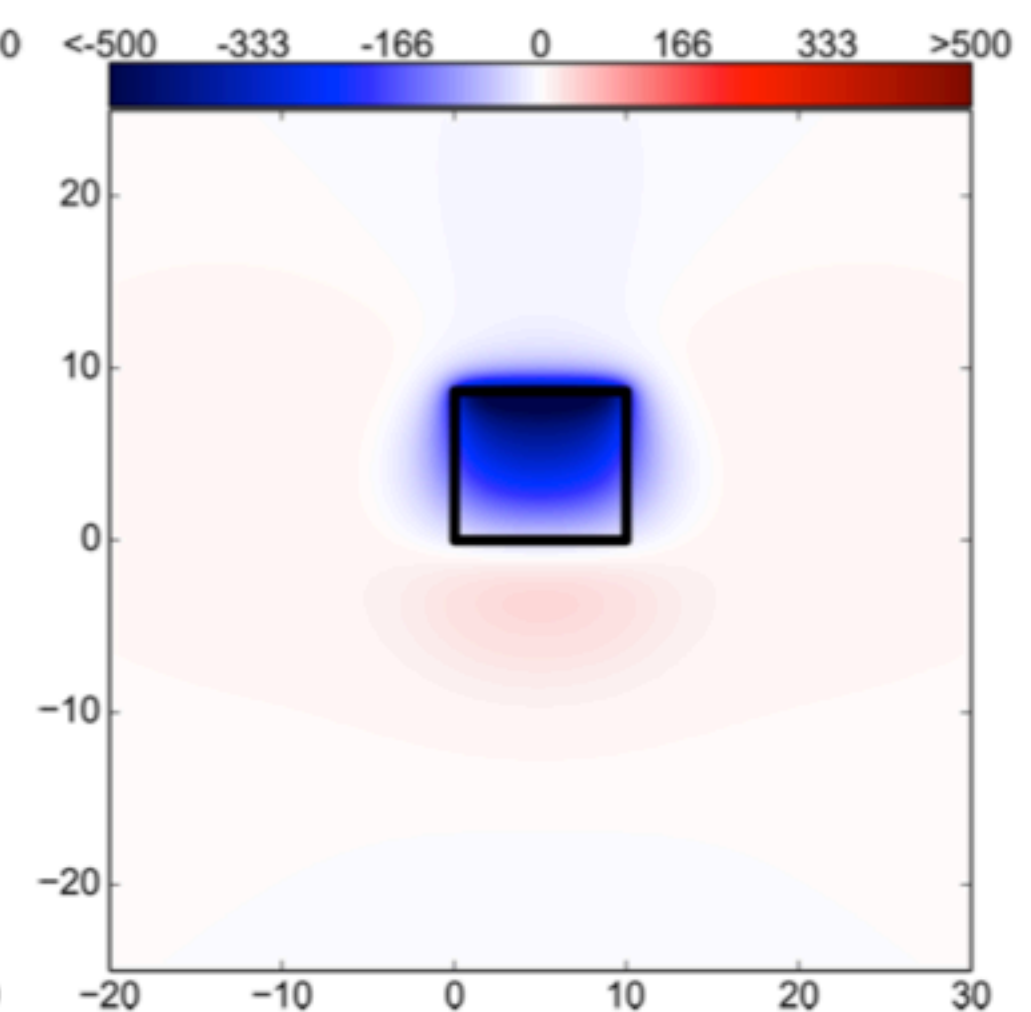
strike-slip, dip = 90°

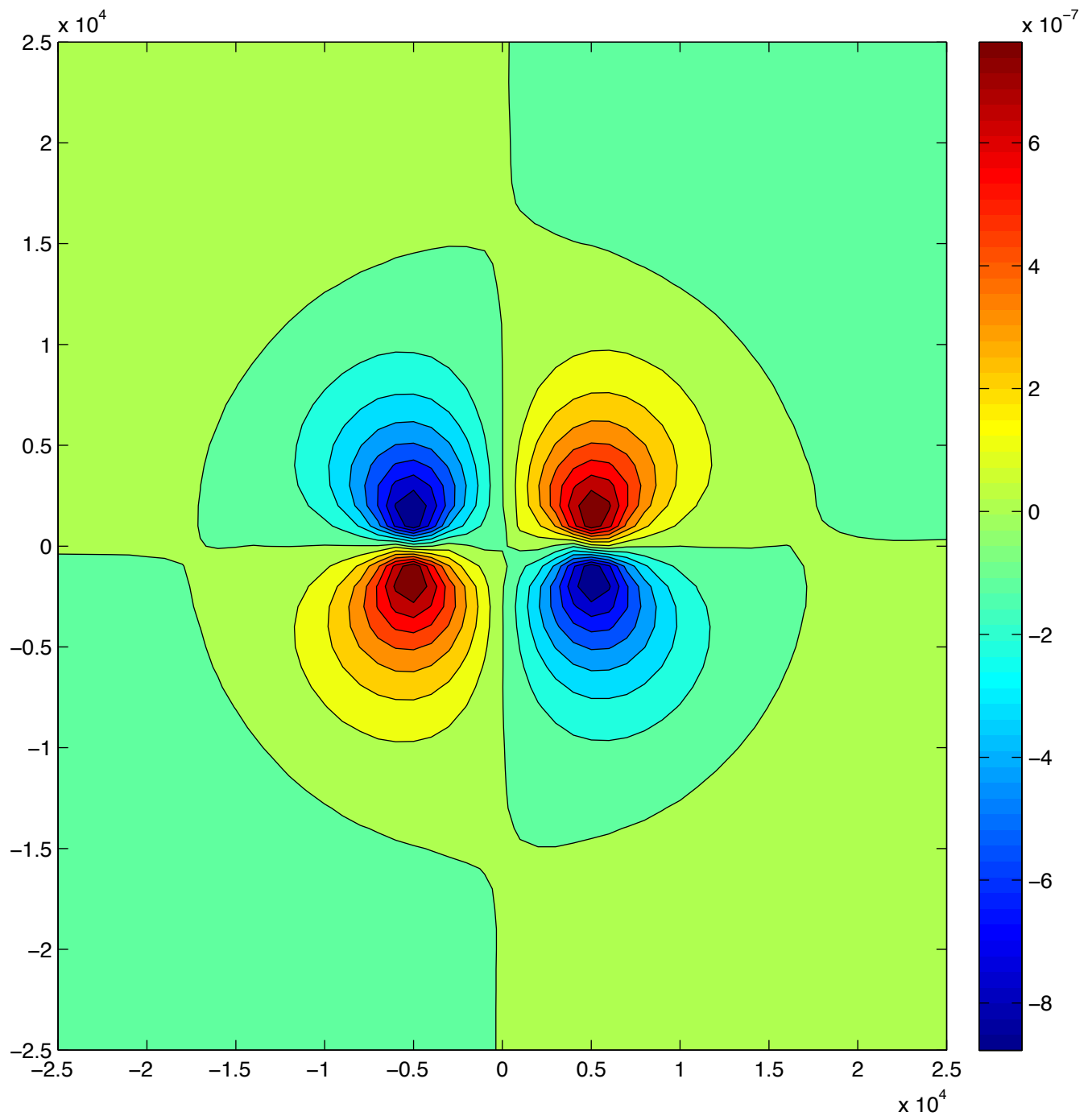


normal, dip = 30°

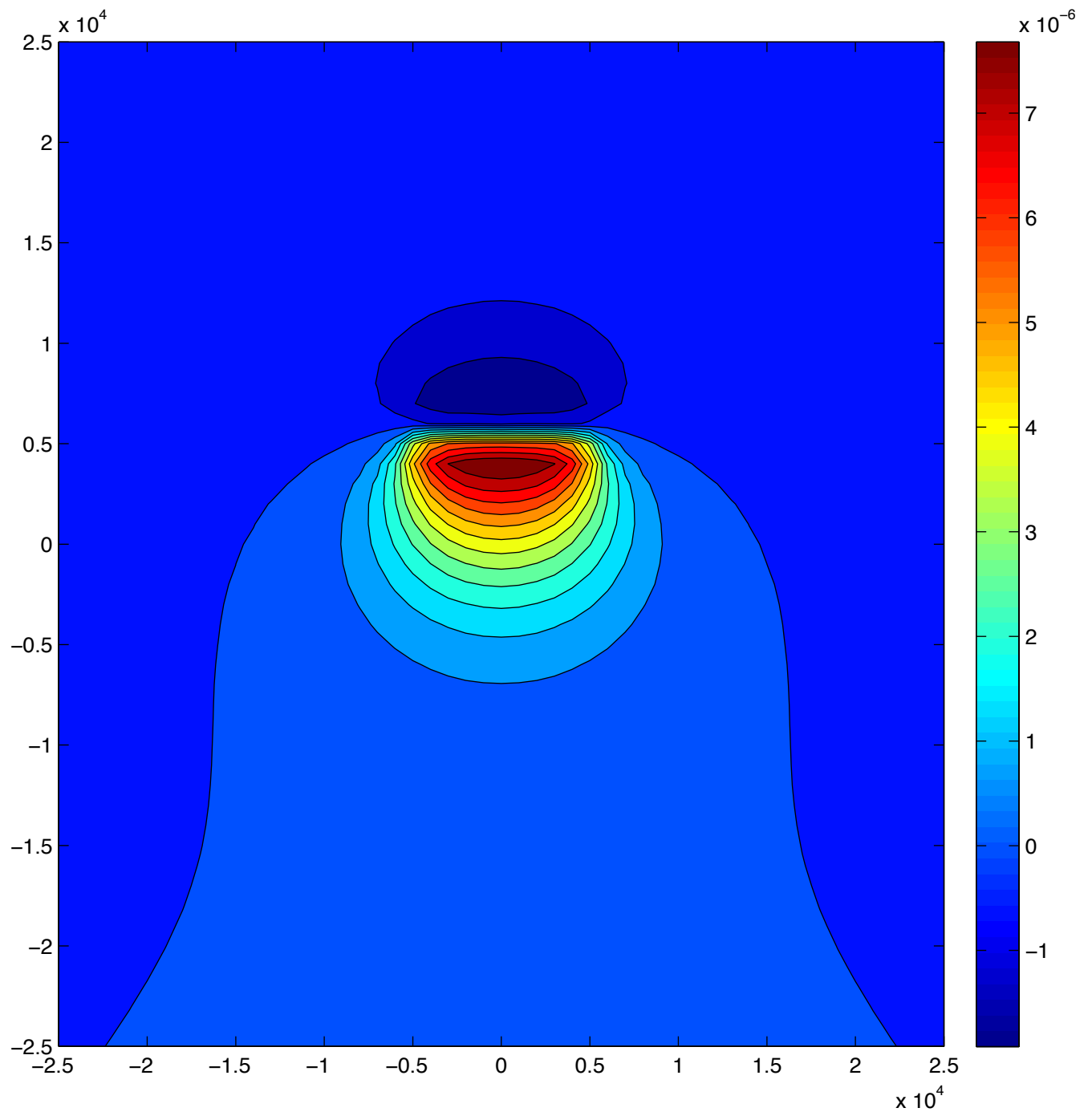


thrust, dip = 60°

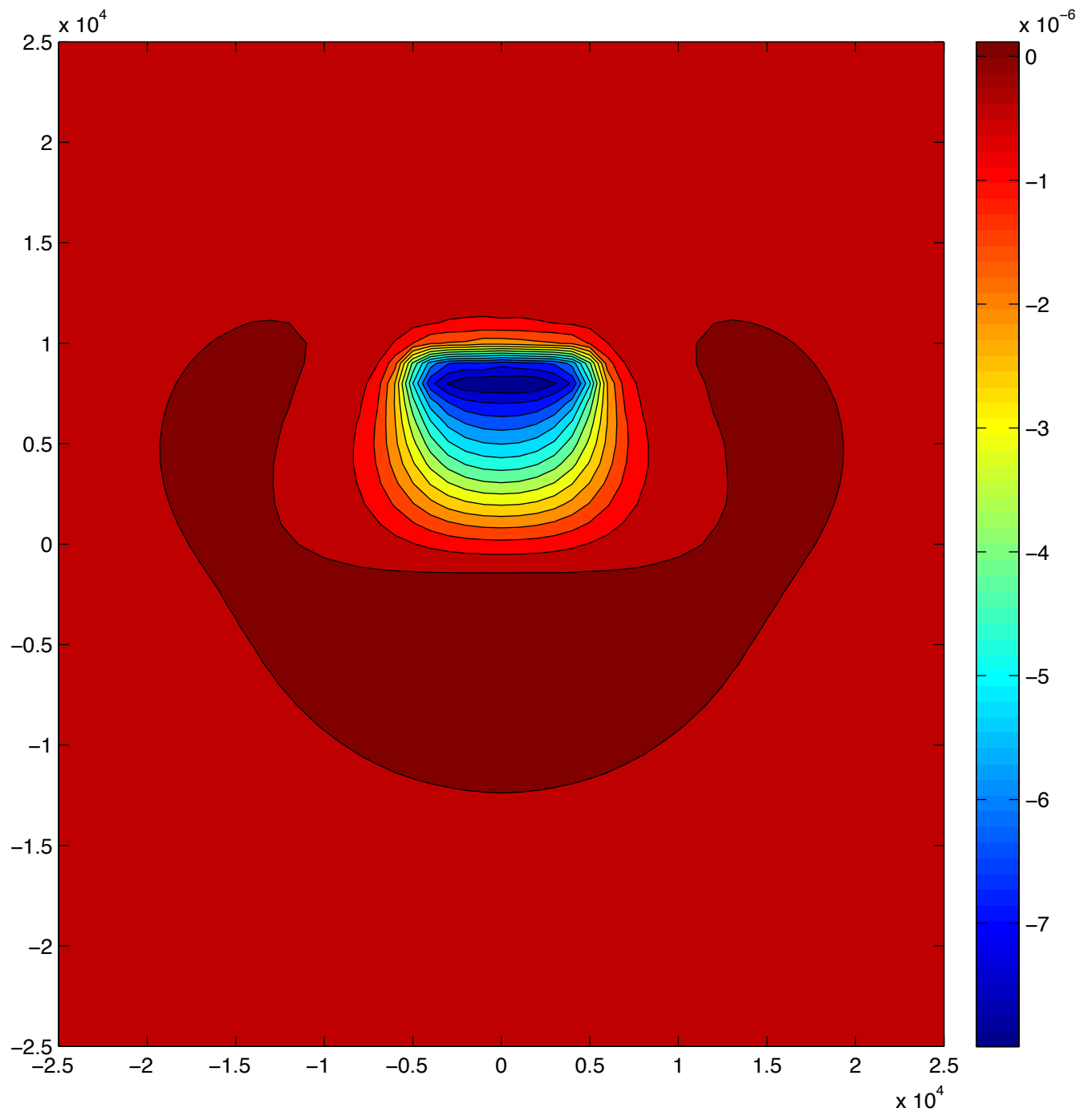




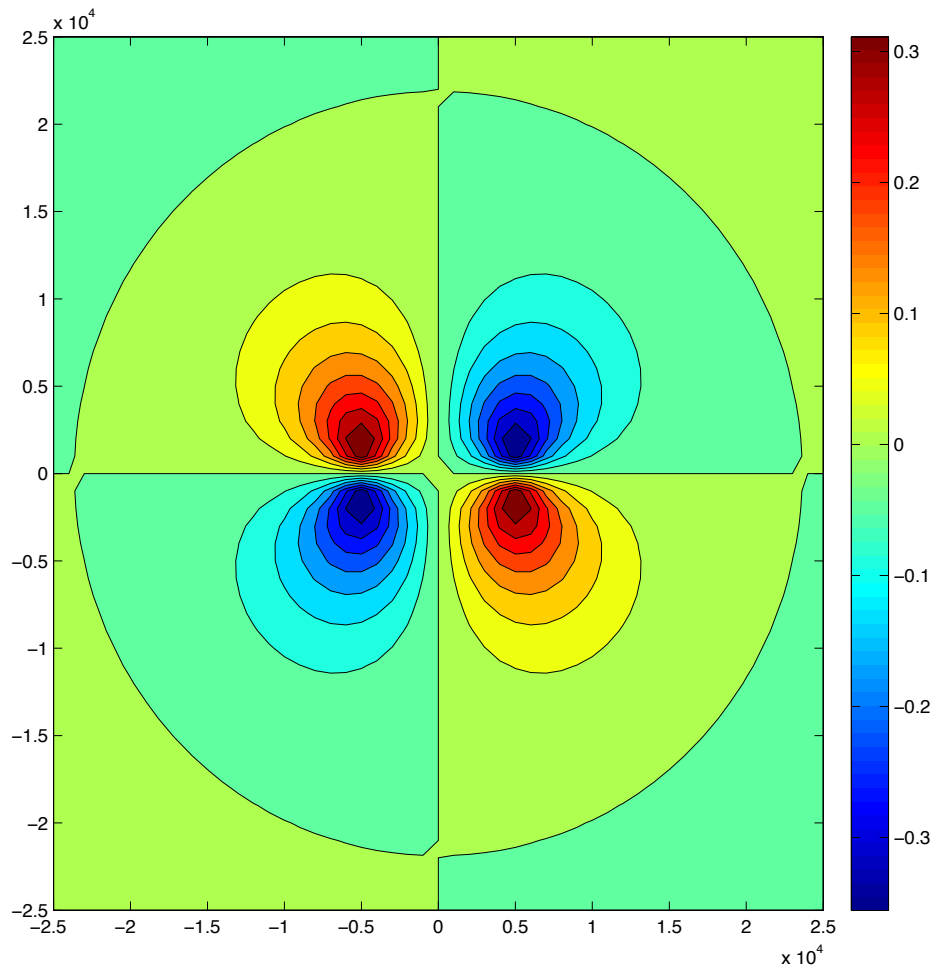
strike slip fault
surface gravity change (m/s^2)



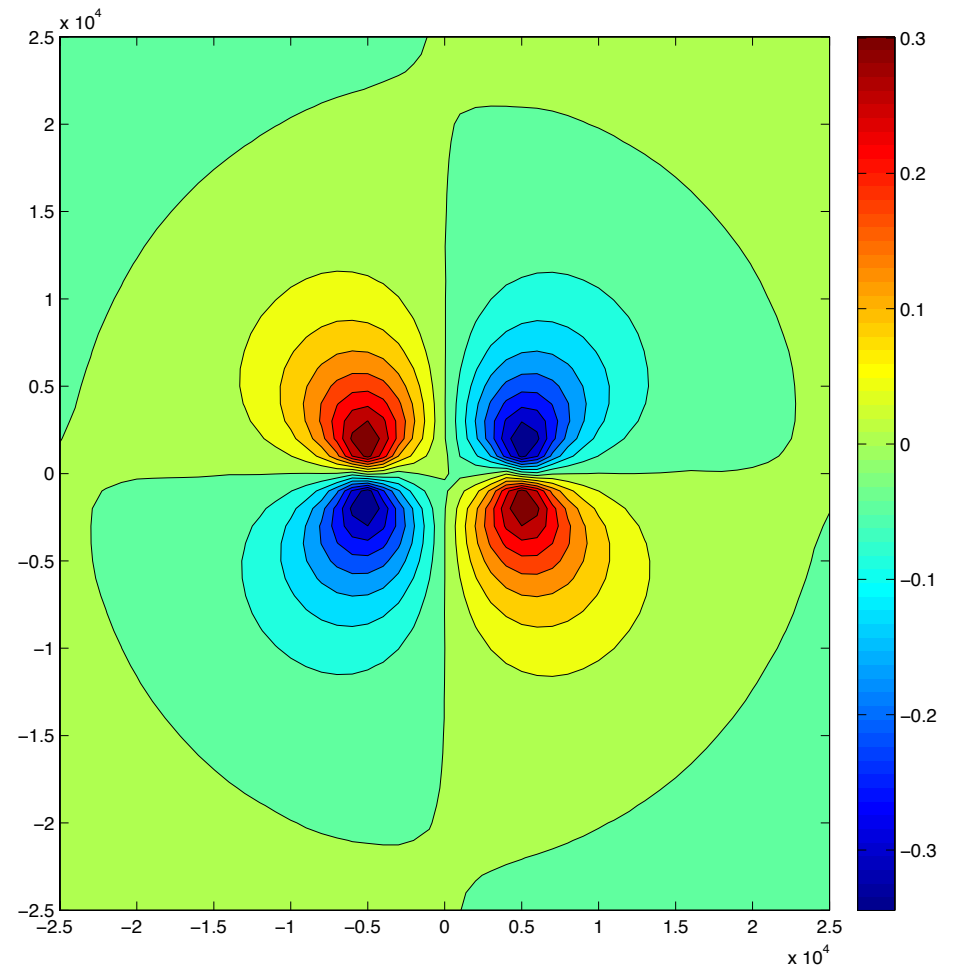
**60° normal fault
surface gravity change (m/s^2)**



**30° thrust fault
surface gravity change (m/s^2)**



Okada solution



GeoFEST solution

strike slip fault, vertical displacement (meters)