## Postseismic slip following the 1968 Tokachi-Oki earthquake based on the tide records and leveling data.

# Hideki Ueda[1], Masakazu Ohtake[2], Haruo Sato[3]

[1] Geophys. Sci. Tohoku Univ., [2] Dept. of Geophysics, Tohoku Univ, [3] Geophysics, Science, Tohoku University

http://zisin.geophys.tohoku.ac.jp/~ueda/index-j.html

We investigated the postseismic crustal deformation following the 1968 Tokachi-Oki earthquake (M7.9) based on the analysis of tide-gauge records and leveling data. These data indicate that postseismic uplift occurred in a broad area around the focal region from the mainshock to the end of 1970s. We estimated an afterslip area as the source of crustal deformation by a grid search method. The result shows that the afterslip area is located on the down-dip extension of the mainshock fault plane. Since similar afterslips have been reported for large interplate earthquakes in the east off Japan, the deep-seated afterslip is likely to be a common nature in this region.