

A study of crustal tilting and local tectonics, on the west coast of the Suruga bay, central Japan

Susumu Nakano [1], Mikio Satomura [2], Takeshi Sagiya [3]

[1] RCEP, DPRI, Kyoto Univ., [2] Fac. of Science, Shizuoka Univ., [3] Research Center, GSI

A Long-baseline Water-tube Tiltmeter at Sagara is installed nearly parallel to convergent motion of the Philippine Sea plate, shown by Seno et al.(1993). Tilting data include seasonal variations and rainfall effects, and so these drifts have to be removed. The numbers of coefficients of rainfall effects are estimated by AIC. Corrected tilting data trend to subside opposite to the Suruga trough. On the other hand Geographical Survey Institute (1998) reports from the results of leveling that this area generally subsides toward the trough. This contradiction is illustrated by the folding under the tiltmeter (Satomura et al.,1994). A result of the gravity surveys by Shichi et al. (1994) is in agreement with the position of the tiltmeter and the evidence of the folds.