

Uplift of Tsukuba GPS station due to heavy rain in summer

Mikio Tobita[1]; Hiroshi Munekane[1]; Shigeru Matsuzaka[1]

[1] GSI

Time series of a vertical component of Tsukuba GPS station suggests the fact that heavy rainfall during May to August induces uplift of the GPS station. The mechanism of this phenomena is probably that heavy rainfall during irrigation period for paddy field makes operators stop water pumps, groundwater level rises, and aquifers expand elastically.