

Buildup of the ground deformation monitoring system on the Fuji volcano

Shigeru Suto[1], Eiji Saito[2], Kazuaki Watanabe[3]

[1] GSJ, AIST, [2] GSJ,AIST, [3] AIST

Buildup of the ground deformation monitoring system on the Fuji volcano (3,776m) was carried out to get the basic information of how to estimate the time and location of the next eruption. GPS and EDM measurement system of both automatic and manual method were set on the volcano, which altitude were from 1,000m to 3,400m above the sea level. The GPS instrument had been set on the four locations both on the northwest side and on the south east side of the volcano, and one more set was built on the east slope in this fiscal year. Totally eight of the nine GPS stations were connected with the wired and wireless telephone system to transfer the data immediately to the GSJ office in Tsukuba, about 150km east of the volcano. The maximum height difference in the GPS network is around 1800 meters, and the large annual change was detected in the network. After the correction of the annual change value, caused by the height difference, no large deformation was detected in this system until January 2002.