Ae-P009

GPS/Acoustic experiment on the southeastern flank of Hawaii Island

Yukihito Osada[1], Hiromi Fujimoto[2], Satoshi Miura[3], Toshihiko Kanazawa[4], John A. Hildebrand[5], C. David Chadwell[6]

[1] ORI, Univ. Tokyo, [2] School of Sci., Tohoku Univ., [3] RCPEVE, Tohoku Univ., [4] ERI, Tokyo Univ, [5] MPL, SIO, UCSD, [6] UCSD, SIO, MPL

Earthquake Research Institute, University of Tokyo, and Tohoku University have developed under the Ocean Hemisphere Program (OHP) a new GPS/Acoustic system for seafloor geodesy on the Pacific plate jointly with Marine Physical Laboratory, Scripps Institution of Oceanography. Scripps group has deployed the same system and carried out GPS/Acoustic experiment on the southeastern flank of Hawaii Island in fall 2000. We also deployed a unit for OHP, and confirmed that the acoustic transponder system is capable of cm-order ranging at slant range as much as 14 km.