

Role of GPS in System Architecture of Airport Coordinate Monitoring (3)

Ministry of Land, Infrastructure and Transport, Tokyo Regional Civil Aviation Bureau Yoshihiko Hayashi, Masaru Namiki,
Ministry of Land, Infrastructure and Transport, Osaka Regional Civil Aviation Bureau Kousaku Hatanaka, Masanobu Sato,
NTT Data Corporation Shigeki Sato, Yoichiro Fujii[1], # Yao Tanaka[1]

[1] NIPPO

The Airport Coordinate Monitoring System promoted by the Ministry of Land, Infrastructure and Transport that is now in the stage of test observations and scheduled to work officially from April 1, 2001. Rate of annual changes of airport positions are estimated by using the results of two independent network adjustments with GPS data of April and December, 2000, respectively. Remarkable position changes are detected at some airports. We are requested to apply geoid model in order to obtain orthometric height at the airport from ellipsoidal height. Availability of two geoid models, EGM96 and Jgeoid96, are investigated with the aids of leveling data. We find that Jgeoid96 is more suitable in Japan than EGM96 at the present even though this is not available at some isolated islands.