

The effects of platform generated multipath on the performance of a GPS receiver are studied when the receiver is connected to a GAS-1 CRPA mounted on a C-12J aircraft. The signals received by the seven elements of the CRPA are fed to antenna electronics (AE) where the signals are combined based on null steering or beam forming/null steering. AE based on space-only processing, 7-tap STAP, as well as 128-bin SFAP is considered. It is shown that platform generated multipath has very little effect on the system performance. As expected, beam forming/null steering works better than simple null steering. Also, the performance of space-only processing based AE is not as good as that of STAP/SFAP. For severe jamming scenarios, SFAP based AE performs a little better than STAP based AE.