

SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM (B2)
Mobile Satellite Communications and Navigation Technology (2)

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CONTINUOUS OPERATING REFERENCE STATIONS (CORS) IN NIGERIA: THE CHALLENGES
OF ITS OPERABILITY

Abstract

In most developed countries presently, modern Global Navigation Satellite System (GNSS) applications is heavily dependent on a continuous observation signals from series of space bound satellites within a network generally referred to as Continuous Operating Reference Stations (CORS) involving several GNSS base relating these signals to central server from which the calculations and distribution of high accuracy corrections to end users based on their locations. This paper seeks to explore the challenges militating against the optimal operation of CORS in Nigeria almost a decade since the initiation of The Nigerian Permanent GNSS Reference Network (NIGNET) project and the possible approach to solving these challenges in ensuring that Nigeria fulfill its commitment to the African Geodetic Reference Frame, (AFREF) project and taps from the gains of technological advancement and innovations. Keywords: GNSS, AFREF, NIGNET, CORS and Geodetic Reference framework.