

A Semi-dynamic Geodetic Datum for Papua New Guinea

Papua New Guinea's current geodetic datum is PNG94 which shares the same realisation as GDA94 in Australia. Unlike Australia, however, PNG is one of the most tectonically active and complex countries on the Earth. Internal deformation is occurring within PNG at rates of up to 900 mm/yr and coseismic deformation is often several metres in magnitude. This paper presents the findings of 12 years of analysis of PNG's geodetic network. The paper also shows how spatial professionals can mitigate the effects of tectonic deformation.

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