

How stable is GDA94 and when will an update be necessary?

GDA94 is now in its 14th year since realisation. Since 1994 precise point positioning technology has improved significantly and several realisations of the International Terrestrial Reference Frame that defined GDA94 have come and gone. GDA94 is a static datum in a dynamic world. This paper examines the effect of intraplate deformation on GDA94 and its effect on the stability of the datum. The relationship between GDA94 and ITRF2005 and longevity of GDA94 are also discussed. When will GDA94 need to be updated? What are the implications of a change of datum for the spatial sciences and what are the drivers? The paper addresses these issues with reference to typical problems faced by GPS professionals and spatial analysts.

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