

The Development of the Papua New Guinea Geodetic Datum 1994 (PNG94)

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ABSTRACT

The development of the modernised geocentric datum for Papua New Guinea (PNG94) is described. PNG94 was realised concurrently with GDA94 in Australia as a realisation of ITRF92 at epoch 1994.0 . A series of nationwide GPS campaigns between 1992 and 1994 resulted in a network of 14 zero order (fiducial) geodetic stations around Papua New Guinea. The GPS data were processed and analysed by John Morgan at University of Canberra using GAMIT and GLOBK software. Terrestrial and Doppler observations for existing 1st and 2nd order stations in PNG were included in a nationwide adjustment using NEWGAN software by Professor (late) John Allman. This paper summarises the key findings of the development of the new datum and some of the pitfalls encountered

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