



Enhancement of Australia's National Geospatial Reference System

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The Strength and Stability of the ITRF is dependant on the robustness of the space geodetic networks (GNSS, SLR, VLBI, etc) and the collocations between them. Currently the southern hemisphere is particularly weak in terms of site distribution and quantity of both SLR and VLBI observatories and collocations between them can only be achieved through GPS collocations.

Australia has set itself the goal of improving the accuracy of its National Geospatial Reference System by an order of magnitude over the coming decade. In order to achieve this goal the stability and accuracy of ITRF and its realisation in our region will also need to be enhanced. As such an integrated infrastructure network enhancement plan has been put in place that will contribute directly to the accuracy of the ITRF and also allow more accurate realisation of the frame in the Australian Region. This presentation will discuss this infrastructure enhancement strategy and the perceived benefit of this network.