

Using GNSS to establish a Height Datum on a Project

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Abstract

This paper explains in detail practical steps for establishing or extending a height datum on a project in PNG using GNSS Techniques, using recent surveys in PNG as examples. The following topics will be covered in the presentation:

1. An overview of the PNG, EGM96 and new EGM2008 geoid models
2. Preliminary tidal monitoring and determination of MSL, LAT and HAT
3. Using GNSS and PPP methods to estimate ellipsoid heights
4. Estimating the geoid zero-order term (correction)
5. Aligning a geoid profile with a pre-established height datum
6. Height datum conversions