

Moturiki 1953 to NZVD2016 Conversion

Title
| Moturiki 1953 to NZVD2016 Conversion

Creator
| LINZ - Land Information New Zealand

Date
| 2016-06-27

Description
| The MOT53-NZVD2016 grid enables the conversion of normal-orthometric heights from the Moturiki 1953 local vertical datum to the New Zealand Vertical Datum 2016 (NZVD2016). The conversion value is represented by the attribute "O", in metres. This conversion and NZVD2016 are formally defined in the LINZ standard [LINZS25009](<http://www.linz.govt.nz/regulatory/25009>). MOT53-NZVD2016 is published on a two arc-minute grid (approximately 3.6 kilometres) extending over the benchmarks that nominally define the extent of the Moturiki 1953 vertical datum (174.5° E to 178.26° E, 36.5° S to 40.7° S). The height conversion grid models the difference between the Moturiki 1953 vertical datum and NZVD2016 using the LINZ GPS-levelling marks. From the GPS-levelling marks the expected accuracy of MOT53-NZVD2016 is better than 2 centimetres (95% Confidence interval). More information on converting heights between vertical datums can be found [on the LINZ website](<http://www.linz.govt.nz/data/geodetic-services/coordinate-conversion/converting-between-nzvd2016-nzgd2000-and-local-vertical-datums>).

Source
| ****MOT53-NZVD2016 version 20160627**** This height conversion grid supersedes the offset (0.24m) that was used with NZVD2009. MOT53-NZVD2016 is published on a two arc-minute grid (approximately 3.6 kilometres) extending over the benchmarks that nominally define the extent of the Moturiki 1953 vertical datum (174.5° E to 178.26° E, 36.5° S to 40.7° S). The conversion value is represented by the attribute "delta", in metres. The height conversion grid models the difference between the Moturiki 1953 vertical datum and NZVD2016 using the LINZ GPS-levelling marks. The input data has an average of 0.31m and range of 0.14m to 0.54m. From the GPS-levelling marks the expected accuracy of MOT53-NZVD2016 is better than 2 centimetres (95% Confidence interval).

Coverage
| -40.7 174.5 -36.5 178.26

Identifier
| <https://data.linz.govt.nz/layer/53448-moturiki-1953-to-nzvd2016-conversion/>

Type
| grid

Language
| eng

Subject
| New Zealand

Subject
| LAND-Geodesy

Subject
| LAND-Cadastre

Subject
| LAND-Topography

Subject
| location