

# Stewart Island 1977 to NZVD2016 Conversion

Title	Stewart Island 1977 to NZVD2016 Conversion
Creator	Toitū Te Whenua Land Information New Zealand
Date	2016-06-27
Description	<p>The STI77-NZVD2016 grid enables the conversion of normal-orthometric heights from the Stewart Island 1977 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](<a href="http://www.linz.govt.nz/regulatory/25009">http://www.linz.govt.nz/regulatory/25009</a>). STI77-NZVD2016 is published on a two arc-minute grid (approximately 3.6 kilometres) extending over the benchmarks that nominally define the extent of the Stewart Island 1977 vertical datum (167.2° E to 168.8° E, 46.5° S to 47.5° S). The height conversion grid models the difference between the Stewart Island 1977 vertical datum and NZVD2016 using the LINZ GPS-levelling marks. From the GPS-levelling marks the expected accuracy of STI77-NZVD2016 is better than 18 centimetres (95% Confidence interval). More information on converting heights between vertical datums can be found [on the LINZ website] (<a href="http://www.linz.govt.nz/data/geodetic-services/coordinate-conversion/converting-between-nzvd2016-nzgd2000-and-local-vertical-datums">http://www.linz.govt.nz/data/geodetic-services/coordinate-conversion/converting-between-nzvd2016-nzgd2000-and-local-vertical-datums</a>).</p>
Source	<p><b>**STI77-NZVD2016 version 20160627**</b> This height conversion grid supersedes the offset (0.39m) that was used with NZVD2009. STI77-NZVD2016 is published on a two arc-minute grid (approximately 3.6 kilometres) extending over the benchmarks that nominally define the extent of the Stewart Island 1977 vertical datum (167.2° E to 168.8° E, 46.5° S to 47.5° S). The conversion value is represented by the attribute "delta", in metres. The height conversion grid models the difference between the Stewart Island 1977 vertical datum and NZVD2016 using the LINZ GPS-levelling marks. The input data has an average of 0.30m and range of 0.28m to 0.34m. From the GPS-levelling marks the expected accuracy of STI77-NZVD2016 is better than 18 centimetres (95% Confidence interval).</p>
Coverage	-47.5 167.2 -46.5 168.8
Identifier	<a href="https://data.linz.govt.nz/layer/53442-stewart-island-1977-to-nzvd2016-conversion/">https://data.linz.govt.nz/layer/53442-stewart-island-1977-to-nzvd2016-conversion/</a>
Type	grid
Language	eng
Subject	New Zealand
Subject	LAND-Geodesy
Subject	LAND-Cadastre
Subject	LAND-Topography
Subject	location