ISO Geodetic Registry

Item class	Transformation	
Name	**ITRF96 to NZGD2000 [LINZ v20171201]**	
Item status	VALID	
Identifier	505	
Information source	*Title*	Standard for New Zealand Geodetic Datum 2000
	Author	Office of the Surveyor General
	Publisher	Land Information New Zealand
	Publication date	2007-11-16
	Edition date	
	Issue identification	LINZS25000
Information source	*Title*	NZGD2000 Deformation Model
	Author	Land Information New Zealand
	Publisher	Land Information New Zealand
	Revision date	2018-01-15
Information source	*Title*	Transforming between ITRF and NZGD2000
	Author	Land Information New Zealand
	Publisher	Land Information New Zealand
	Publication date	2017-05-09
Data source	ISO Geodetic Registry	
Remarks	Uses LINZ NZGD2000 deformation model. The deformation model transforms an ITRF96 coordinate at a specified epoch to NZGD2000. NZGD2000 is equivalent to ITRF96 epoch 2000 in areas unaffected by earthquakes and other localised deformation. The files required for this version of the transformation are contained within the most recent published version of the deformation model, if a more recent version than this one exists. The nominal operation accuracy is 0.02m horizontally and vertically, which represents the expected consistency of NZGD2000 coordinates calculated at different epochs, in the absence of significant local deformation.	
Operation version	LINZ v20171201	
Scope	Spatial referencing	
Operation accuracy	0.02 m	
Source CRS	ITRF96 - LatLonEHt	
Target CRS	NZGD2000 - LatLonEHt	
Operation method	NZGD2000 Deformation Model	

Extent

Description	**New Zealand - onshore and offshore - Antipodes Islands, Auckland Islands, Bounty Islands, Campbell Island Chatham Islands, Kermadec Islands, North Island, Raoul Island, Snares Islands, South Island, Stewart Island.**	
Geographic Bounding Box	*West-bound longitude*	160.0
	North-bound latitude	-25.0
	East-bound longitude	-170.0
	South-bound latitude	-60.0

Operation parameter values

NZGD2000 deformation model files	nzgd2000_deformation_20171201_full.zip

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Item class	OperationMethod
Name	**NZGD2000 Deformation Model**
Item status	VALID
Identifier	81
Data source	ISO Geodetic Registry
Remarks	This model provides the relationship between a global reference frame (ie one of the ITRFs) and the local reference frame (NZGD2000). It includes both functional definitions and spatial representations for a range of geophysical deformation sources that are represented as discrete sub-models. Each sub-model may include both horizontal and vertical deformation elements, as well as uncertainties. A sub-model is built of one or more components (such as co-seismic and post-seismic components) that when added together give the total deformation for that event. Each component consists of a time function and a spatial representation. The time function defines how a time-based scale factor gets applied to each deformation element.

Operation parameters

NZGD2000 deformation model files