

# ISO Geodetic Registry

<i>Item class</i>	Transformation	
<i>Name</i>	<b>NAD27 to NAD83(Original) [CAv1]</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	637	
<i>Information source</i>	<i>Title</i>	The National Transformation for Converting Between NAD27 and NAD83 in Canada
	<i>Author</i>	D. Junkings
	<i>Publisher</i>	Canadian Institute of Surveying and Mapping, Ottawa, Canada
	<i>Publication date</i>	1990
	<i>Series/Journal name</i>	Moving to NAD '83: the new address for georeferenced data in Canada, D.C. Barnes (ed.)
<i>Information source</i>	<i>Page</i>	16-40
	<i>Title</i>	NTv2 National Transformation Version 2: User's Guide
	<i>Author</i>	D.R. Junkings, S.A. Farley
	<i>Publisher</i>	Geodetic Survey Division, Geomatics Canada, Natural Resources Canada, Government of Canada
	<i>Publication date</i>	1995-09
<i>Information source</i>	<i>Title</i>	FAQ: What are some of the transformation methods for Canada?
	<i>Author</i>	Esri Canada
	<i>Publisher</i>	Esri, Redlands, CA
	<i>Publication date</i>	2016-05-05
	<i>Issue identification</i>	Article ID: 000011846
<i>Information source</i>	<i>Title</i>	Desktop Applications: NTv2
	<i>Author</i>	Canadian Geodetic Survey
	<i>Publisher</i>	Canadian Geodetic Survey, Surveyor General Branch, Earth Sciences Sector, Natural Resources Canada, Government of Canada
	<i>Publication date</i>	2017-02-28
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	Grid tranformation in NTv2 format adopted for use in Canada.	
<i>Operation version</i>	CAv1	
<i>Scope</i>	Spatial referencing	
<i>Operation accuracy</i>	1.5 m	
<i>Source CRS</i>	NAD27 - LatLon	
<i>Target CRS</i>	NAD 83 (1986) - LatLon	
<i>Operation method</i>	NTv2	

## Extent

<i>Description</i>	<b>Canada - onshore and offshore - Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland and Labrador, Northwest Territories, Nova Scotia, Nunavut, Ontario, Prince Edward Island, Quebec, Saskatchewan, Yukon.</b>	
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	-141.01
	<i>North-bound latitude</i>	90.0
	<i>East-bound longitude</i>	-47.74

<i>South-bound latitude</i>	40.04
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#### Operation parameter values

<i>Latitude and Longitude difference file</i>	NTV2_0.GSB
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<i>Item class</i>	OperationMethod
<i>Name</i>	<b>NTv2</b>
<i>Item status</i>	VALID
<i>Identifier</i>	95
<i>Alias</i>	National Transformation version 2 grid shift
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	National Transformation version 2 grid shift file interpolation. Geodetic transformation operating on a grid of 2D geographic coordinate differences by bi-linear interpolation. Assumes longitudes to be positive west.

## Operation parameters

<i>Latitude and Longitude difference file</i>
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