

ISO Geodetic Registry

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| <i>Item class</i> | Transformation | |
| <i>Name</i> | NAD27 to NAD83(Original) [CAv1] | |
| <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 |
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| <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

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|--------------------------------|--|---------|
| <i>Description</i> | 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. | |
| <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 |

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

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|---|------------|
| <i>Latitude and Longitude difference file</i> | NTV2_0.GSB |
|---|------------|

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| <i>Item class</i> | OperationMethod |
| <i>Name</i> | NTv2 |
| <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

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