

# ISO Geodetic Registry

|                           |                                                                |                                                                                                                          |
|---------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <i>Item class</i>         | Transformation                                                 |                                                                                                                          |
| <i>Name</i>               | <b>NAD27(MAY76) to NAD83(CSRs) v3 [ONv1]</b>                   |                                                                                                                          |
| <i>Item status</i>        | VALID                                                          |                                                                                                                          |
| <i>Identifier</i>         | 460                                                            |                                                                                                                          |
| <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>                                                   | NTv2 Grid Shift Files for Ontario                                                                                        |
|                           | <i>Author</i>                                                  | Land Information Ontario                                                                                                 |
|                           | <i>Publisher</i>                                               | Land Information Ontario, Metadata Tool                                                                                  |
|                           | <i>Publication date</i>                                        | 2016-03-22                                                                                                               |
| <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 transformation in NTv2 format adopted for use in Ontario. |                                                                                                                          |
| <i>Operation version</i>  | ONv1                                                           |                                                                                                                          |
| <i>Scope</i>              | Spatial referencing                                            |                                                                                                                          |
| <i>Operation accuracy</i> | 1.0 m                                                          |                                                                                                                          |
| <i>Source CRS</i>         | NAD27(MAY76) - LatLon                                          |                                                                                                                          |
| <i>Target CRS</i>         | NAD83(CSRs) v3 - LatLon                                        |                                                                                                                          |
| <i>Operation method</i>   | NTv2                                                           |                                                                                                                          |

## Extent

|                                |                             |        |
|--------------------------------|-----------------------------|--------|
| <i>Description</i>             | <b>Canada - Ontario.</b>    |        |
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i> | -95.16 |
|                                | <i>North-bound latitude</i> | 56.9   |
|                                | <i>East-bound longitude</i> | -74.35 |
|                                | <i>South-bound latitude</i> | 41.67  |

## Operation parameter values

|                                               |              |
|-----------------------------------------------|--------------|
| <i>Latitude and Longitude difference file</i> | ON76CSv1.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> |
|-----------------------------------------------|