

# ISO Geodetic Registry

|                           |                                       |   |
|---------------------------|---------------------------------------|---|
| <i>Item class</i>         | Transformation                        |   |
| <i>Name</i>               | <b>ATS77 to NAD83(CSRS) v3 [NSv1]</b> |   |
| <i>Item status</i>        | VALID                                 |   |
| <i>Identifier</i>         | 588                                   |   |
| <i>Information source</i> | <i>Title</i>                          | The Evolution of Nova Scotia's Spatial Referencing System from its Origins until 2012 |
|                           | <i>Author</i>                         | J. Bond, W. Robertson   |
|                           | <i>Publisher</i>                      | Canadian Institute of Geomatics   |
|                           | <i>Publication date</i>               | 2015  |
|                           | <i>Series/Journal name</i>            | Geomatica   |
| <i>Information source</i> | <i>Issue identification</i>           | Volume 69, No. 4  |
|                           | <i>Page</i>                           | 407-418   |
|                           | <i>Title</i>                          | A spatial referencing policy for the Province of Nova Scotia: Policy Document         |
|                           | <i>Author</i>                         | GeoNOVA Reference Coordinate System Policy Node                                       |
|                           | <i>Publisher</i>                      | GeoNOVA, Service Nova Scotia and Municipal Relations                                  |
| <i>Information source</i> | <i>Publication date</i>               | 2006-01   |
|                           | <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>Data source</i>        | <i>Issue identification</i>           | Article ID: 000011846   |
|                           | <i>ISO Geodetic Registry</i>          |   |
|                           | <i>Remarks</i>                        | Grid tranformation in NTv2 format adopted for use in Nova Scotia.                     |
|                           | <i>Operation version</i>              | NSv1  |
|                           | <i>Scope</i>                          | Spatial referencing   |
| <i>Operation accuracy</i> | 0.15 m                                |   |
| <i>Source CRS</i>         | ATS77 - LatLon                        |   |
| <i>Target CRS</i>         | NAD83(CSRS) v3 - LatLon               |   |
| <i>Operation method</i>   | NTv2                                  |   |

## Extent

|                                |   |        |
|--------------------------------|---|--------|
| <i>Description</i>             | <b>Canada - onshore and offshore - Nova Scotia.</b> |        |
| <i>Geographic Bounding Box</i> | <i>West-bound longitude</i>                         | -66.28 |
|                                | <i>North-bound latitude</i>                         | 47.08  |
|                                | <i>East-bound longitude</i>                         | -59.73 |
|                                | <i>South-bound latitude</i>                         | 43.41  |

## Operation parameter values

|   |              |
|---|--------------|
| <i>Latitude and Longitude difference file</i> | NS778301.GSB |
|---|--------------|

# ISO Geodetic Registry

|                    |  |
|--------------------|--|
| <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> |
|---|