ISO Geodetic Registry

Item class Transformation

Name ATS77 to NAD83(CSRS) v3 [NSv1]

Item statusVALIDIdentifier588

Information source Title The Evolution of Nova Scotia's Spatial

Referencing System from its Origins until 2012

Author J. Bond, W. Robertson

Publisher Canadian Institute of Geomatics

Publication date 2015 Series/Journal name Geomatica Issue identification Volume 69, No. 4

Page 407-418

Information source Title A spatial referencing policy for the Province of

Nova Scotia: Policy Document

Author GeoNOVA Reference Coordinate System Policy

Node

Publisher GeoNOVA, Service Nova Scotia and Municipal

Relations

Publication date 2006-01

Information source Title FAQ: What are some of the transformation

methods for Canada?

AuthorEsri CanadaPublisherEsri, Redlands, CAPublication date2016-05-05

Issue identification Article ID: 000011846

Data source ISO Geodetic Registry

Remarks Grid tranformation in NTv2 format adopted for use in Nova Scotia.

Operation version NSv1

Scope Spatial referencing

Operation accuracy 0.15 m

Source CRS ATS77 - LatLon

Target CRS NAD83(CSRS) v3 - LatLon

Operation method NTv2

Extent

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

Operation parameter values

Latitude and Longitude difference file NS778301.GSB

ISO Geodetic Registry

Item class OperationMethod

Name NTv2
Item status VALID
Identifier 95

Alias National Transformation version 2 grid shift

Data source ISO Geodetic Registry

Remarks 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

Latitude and Longitude difference file