ISO Geodetic Registry

Item class Transformation

NAD27 to NAD83(Original) [CAv1]

Item statusVALIDIdentifier637

Information source Title The National Transformation for Converting

Between NAD27 and NAD83 in Canada

Author D. Junkings

Publisher Canadian Institute of Surveying and Mapping,

Ottawa, Canada

Publication date 1990

Series/Journal name Moving to NAD '83: the new address for

georeferenced data in Canada, D.C. Barnes (ed.)

Page 16-40

Information source Title NTv2 National Transformation Version 2: User's

Guide

Author D.R. Junkings, S.A. Farley

Publisher Geodetic Survey Division, Geomatics Canada,

Natural Resources Canada, Government of

Canada

Publication date 1995-09

Information source Title FAQ: What are some of the transformation

methods for Canada?

Author Esri Canada
Publisher Esri, Redlands, CA

Publication date 2016-05-05

Issue identification Article ID: 000011846
Information source Title Desktop Applications: NTv2
Author Canadian Geodetic Survey

Publisher Canadian Geodetic Survey, Surveyor General

Branch, Earth Sciences Sector, Natural Resources Canada, Government of Canada

Publication date 2017-02-28

Data source ISO Geodetic Registry

Remarks Grid tranformation in NTv2 format adopted for use in Canada.

Operation version CAv1

Scope Spatial referencing

Operation accuracy 1.5 m

Source CRS NAD27 - LatLon

Target CRS NAD 83 (1986) - LatLon

Operation method NTv2

Extent

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.

Geographic Bounding Box West-bound longitude -141.01

North-bound latitude 90.0 East-bound longitude -47.74

Operation parameter values

Latitude and Longitude difference file	NTV2 0.GSB	
Lanuae and Longitude unierence me	N1 V2 U.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