ISO Geodetic Registry

Item class	Transformation	
Name	**NAD83(CSRS) v2 to CGVD28 [v1]**	
Item status	VALID	
Identifier	967	
Information source	*Title*	Referencing and Time Tagging Heights in Canada
	Author	M. Veronneau
	Publisher	Geodetic Survey Division, Natural Resources Canada, Government of Canada
	Publication date	2018
	Series/Journal name	Internal Report
Information source	*Title*	Geoid Models
	Author	Canadian Geodetic Survey
	Publisher	Geodetic Survey Division, Natural Resources Canada, Government of Canada
	Revision date	2021-12-07
	Other citation details	Website. https://webapp.geod.nrcan.gc.ca/geod/data-donnees/geoid.php?locale=en (accessed 2022-01-21).
Information source	*Title*	GPS-H
	Author	Canadian Geodetic Survey
	Publisher	Geodetic Survey Division, Natural Resources Canada, Government of Canada
	Revision date	2021-03-15
	Other citation details	Website: https://webapp.geod.nrcan.gc.ca/geod/tools-outils/gpsh.php
Information source	*Title*	The GPS Height Transformation (v2.0): An Ellipsoidal-CGVD28 Height Transformation for Use With GPS in Canada
	Author	M. Veronneau, A. Mainville, M. Craymer
	Publisher	Geodetic Survey Division, Natural Resources Canada, Government of Canada
	Publication date	2001
	Series/Journal name	Internal Report
Information source	*Title*	Height Transformation version 2.0 (HTv2.0), Epochs 2002.0 and 2010.0
	Author	M. Veronneau
	Publisher	Geodetic Survey Division, Natural Resources Canada, Government of Canada
	Publication date	2019
	Series/Journal name	Internal Report
Data source	ISO Geodetic Registry	
Remarks	Grid transformation from NAD83(CSRS) v2 ellipsoidal heights at epoch 1997.0 to CGVD28 normal orthometric heights. Bi-linear interpolation of the grid file will give results agreeing to within 1cm 99.97% of the time. Grid file was previously named HT2_0.byn.	
Operation version	v1	
Scope	Spatial referencing.	
Operation accuracy	0.05 m	
Source CRS	NAD83(CSRS) v2 - LatLonEHt	
Target CRS	CGVD28 - NOHt	
Operation method	Geographic3D to Gravity Related Height (Canada)	

Extent

Description	**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
	South-bound latitude	40.04

Operation parameter values

Geoid (height correction) model file	HT2_1997.byn

ISO Geodetic Registry

Item class	OperationMethod
Name	**Geographic3D to Gravity Related Height (Canada)**
Item status	VALID
Identifier	89
Data source	ISO Geodetic Registry
Remarks	For consistency with earlier geoid models in Canada, reference software for CGG2013 and CGG2013a uses bi-quadratic interpolation over nine grid nodes. The bi-linear interpolation is sufficient for most uses as the newer models have a higher spatial resolution. See information source for file format documentation.
Formula	The GPS Height Transformation (v2.0): An Ellipsoidal-CGVD28 Height Transformation for Use With GPS in Canada

Operation parameters

Geoid (height correction) model file