

# ISO Geodetic Registry

<i>Item class</i>	Transformation	
<i>Name</i>	<b>NAD83(CSRS) v6 to CGVD2013(CGG2013a) Epoch 2010 - OHt [v1]</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	596	
<i>Alias</i>	NAD83(CSRS) v6 to CGVD2013(CGG2013a) - OHt [v1]	
<i>Information source</i>	<i>Title</i>	The Canadian Geodetic Vertical Datum of 2013 (CGVD2013)
	<i>Author</i>	M. Veronneau, J. Huang
	<i>Publisher</i>	Canadian Institute of Geomatics
	<i>Publication date</i>	2016
	<i>Series/Journal name</i>	Geomatica
<i>Information source</i>	<i>Issue identification</i>	Volume 70, No. 1
	<i>Page</i>	9.0
	<i>Title</i>	Canadian Gravimetric Geoid 2013 – Version A (CGG2013a)
	<i>Author</i>	M. Veronneau, J. Huang
	<i>Publisher</i>	Geodetic Survey Division, Natural Resources Canada, Government of Canada
<i>Data source</i>	<i>Publication date</i>	2015-11
	ISO Geodetic Registry	
<i>Remarks</i>	Grid transformation from NAD83(CSRS) v6 ellipsoidal heights at epoch 2010.0 to CGVD2013(CGG2013a) orthometric heights at epoch 2010.0 using the CGG2013a geoid model upon which CGVD2013(CGG2013a) is defined. Bi-linear interpolation of the grid file will give results agreeing to within 1cm 99.97% of the time.	
<i>Operation version</i>	v1	
<i>Scope</i>	Spatial referencing	
<i>Operation accuracy</i>	0.03 m	
<i>Source CRS</i>	NAD83(CSRS) v6 - LatLonEHt	
<i>Target CRS</i>	CGVD2013(CGG2013a) Epoch 2010 - OHt	
<i>Operation method</i>	Geographic3D to Gravity Related Height (Canada)	

## Extent

<i>Description</i>	<b>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.</b>	
<i>Geographic Bounding Box</i>	<i>West-bound longitude</i>	-141.01
	<i>North-bound latitude</i>	90.0
	<i>East-bound longitude</i>	-47.74
	<i>South-bound latitude</i>	40.04

## Operation parameter values

<i>Geoid (height correction) model file</i>	CGG2013an83.byn
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<i>Item class</i>	OperationMethod
<i>Name</i>	<b>Geographic3D to Gravity Related Height (Canada)</b>
<i>Item status</i>	VALID
<i>Identifier</i>	89
<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	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.
<i>Formula</i>	The GPS Height Transformation (v2.0): An Ellipsoidal-CGVD28 Height Transformation for Use With GPS in Canada

## Operation parameters

*Geoid (height correction) model file*