ISO Geodetic Registry

Item class	Transformation	
Name	**NAD83(CSRS) v6 to CGVD2013(CGG2013) - OHt [v1]**	
Item status	VALID	
Identifier	464	
Information source	*Title*	The Canadian Geodetic Vertical Datum of 2013 (CGVD2013)
	Author	M. Veronneau, J. Huang
	Publisher	Canadian Institute of Geomatics
	Publication date	2016
	Series/Journal name	Geomatica
	Issue identification	Volume 70, No. 1
	Page	9.0
Data source	ISO Geodetic Registry	
Remarks	Grid transformation from NAD83(CSRS) v6 ellipsoidal heights to CGVD2013(CGG2013) orthometric heights using the CGG2013 geoid model upon which CGVD2013(CGG2013) is defined. Bi-linear interpolation of the grid file will give results agreeing to within 1cm 99.97% of the time.	
Operation version	v1	
Scope	Spatial referencing	
Operation accuracy	0.03 m	
Source CRS	NAD83(CSRS) v6 - LatLonEHt	
Target CRS	CGVD2013(CGG2013) - OHt	
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	CGG2013n83.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