ISO Geodetic Registry

Item class	VerticalDatum	
Name	**Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric Geoid of 2013a) Epoch 2010**	
Item status	VALID	
Identifier	140	
Alias	CGVD2013(CGG2013a)	
Alias	Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric Geoid of 2013a)	
Alias	CGVD2013(CGG2013a) Epoch 2010	
Alias	CGG2013a	
Alias	CGVD2013 Epoch 2010	
Alias	CGVD2013	
Information source	*Title*	Canadian Geodetic Vertical Datum of 2013
	Author	Judith Bosse
	Publisher	Government of Canada
	Publication date	2015-12-05
	Series/Journal name	Canada Gazette
	Issue identification	Part I, December 5, 2015
	Page	2587.0
Information source	*Title*	Canadian Gravimetric Geoid 2013 – Version A (CGG2013a)
	Author	M. Veronneau, J. Huang
	Publisher	Geodetic Survey Division, Natural Resources Canada, Government of Canada
	Publication date	2015-11
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	Second realization of CGVD2013. Replaces CGVD2013(CGG2013). Orthometric heights.	
Anchor definition	CGVD2013(CGG2013a) is a gravimetric datum realized by the Canadian Gravimetric Geoid of 2013 Version A (CGG2013a), referenced to the NAD83(CSRS) v6 geodetic datum at epoch 2010.0. The geoid-based datum is defined by the equipotential surface Wo=62,636,856.0 m*m/s/s, representing by convention the coastal mean sea level for North America. The definition and geopotential value comes from an agreement between Canada and the USA. The Canadian Gravimetric Geoid of 2013a (CGG2013a) is the second realization of the CGVD2013 vertical datum and is considered static. It is available in both the NAD83(CSRS) and ITRF2008 geometric reference frames using the GRS80 ellipsoid, making it compatible with space-based positioning techniques. Heights in CGVD2013(CGG2013a) are orthometric and can be obtained from NAD83(CSRS) v6 or ITRF2008 ellipsoidal heights by subtracting the CGG2013a geoid height in either NAD83(CSRS) v6 or ITRF2008, respectively.	
Release date	2015	

Coordinate Reference Epoch	2010.0
Scope	Spatial referencing

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