

# ISO Geodetic Registry

<i>Item class</i>	VerticalDatum																
<i>Name</i>	<b>Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric Geoid of 2013a) Epoch 2002</b>																
<i>Item status</i>	VALID																
<i>Identifier</i>	964																
<i>Alias</i>	Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric Geoid of 2013a)																
<i>Alias</i>	CGVD2013(CG2013a)																
<i>Alias</i>	CG2013a																
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<i>Data source</i>	ISO Geodetic Registry																
<i>Remarks</i>	Heights are at epoch 2002.0.																
<i>Anchor definition</i>	CGVD2013(CG2013a) is a gravimetric datum defined by the Canadian Gravimetric Geoid of 2013a (CG2013a), referenced to the NAD83(CSRS) v6 geodetic datum at epoch 2002.0. The geoid-based datum is defined by the equipotential surface $W_0=62,636,856.0 \text{ m}^2/\text{s}^2$ , 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 (CG2013a) 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) epoch 2002.0 are orthometric and can be obtained from NAD83(CSRS) v6 or ITRF2008 ellipsoidal heights at epoch 2002.0 by subtracting the CGG2013a geoid height in either NAD83(CSRS) v6 or ITRF2008, respectively.
<i>Release date</i>	2015
<i>Coordinate Reference Epoch</i>	2002.0
<i>Scope</i>	Spatial referencing

## 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	