

# ISO Geodetic Registry

<i>Item class</i>	VerticalCRS	
<i>Name</i>	<b>CGVD2013(CGG2013) - OHt</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	423	
<i>Alias</i>	Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric Geoid of 2013)	
<i>Information source</i>	<i>Title</i>	Canadian Geodetic Vertical Datum of 2013
	<i>Author</i>	Judith Bosse
	<i>Publisher</i>	Government of Canada
	<i>Publication date</i>	2015-12-05
	<i>Series/Journal name</i>	Canada Gazette
	<i>Issue identification</i>	Part I, December 5, 2015
<i>Information source</i>	<i>Page</i>	2587.0
	<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>Data source</i>	<i>Issue identification</i>	Volume 70, No. 1
	<i>Page</i>	9.0
	ISO Geodetic Registry	
<i>Scope</i>	Spatial referencing	
<i>Datum</i>	Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric Geoid of 2013)	
<i>Coordinate System</i>	Vertical CS. Axis: height (H). Orientation: up. UoM: m.	

## 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

# ISO Geodetic Registry

<i>Item class</i>	VerticalDatum	
<i>Name</i>	<b>Canadian Geodetic Vertical Datum of 2013 (Canadian Gravimetric Geoid of 2013)</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	118	
<i>Alias</i>	CGVD2013(CGG2013)	
<i>Alias</i>	CGVD2013	
<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>Issue identification</i>	Volume 70, No. 1
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<i>Information source</i>	<i>Title</i>	Canadian Geodetic Vertical Datum of 2013
	<i>Author</i>	Judith Bosse
	<i>Publisher</i>	Government of Canada
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	<i>Series/Journal name</i>	Canada Gazette
	<i>Issue identification</i>	Part I, December 5, 2015
	<i>Page</i>	2587.0
<i>Data source</i>	ISO Geodetic Registry	
<i>Remarks</i>	First realization of CGVD2013. Formally announced in the Canada Gazette on 2015-12-05. Replaces CGVD28. Replaced by CGVD2013(CGG2013a). Orthometric heights.	
<i>Anchor definition</i>	CGVD2013(CGG2013) is a gravimetric datum realized by the Canadian Gravimetric Geoid of 2013 (CGG2013), referenced to the NAD83(CSRs) v6 geodetic datum. 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 2013 (CGG2013) is the first realization of the CGVD2013 vertical datum. CGG2013 is defined at epoch 2011.0 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(CGG2013) are orthometric and can be obtained from NAD83(CSRs) v6 or ITRF2008 ellipsoidal heights by subtracting the CGG2013 geoid height in either NAD83(CSRs) v6 or ITRF2008, respectively.	
<i>Release date</i>	2013-11-28	
<i>Coordinate Reference Epoch</i>	2011.0	
<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>
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	<i>North-bound latitude</i>	90.0
	<i>East-bound longitude</i>	-47.74
	<i>South-bound latitude</i>	40.04

# ISO Geodetic Registry

<i>Item class</i>	VerticalCS	
<i>Name</i>	<b>Vertical CS. Axis: height (H). Orientation: up. UoM: m.</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	42	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)
	<i>Publisher</i>	International Organization for Standardization (ISO)
	<i>Publication date</i>	2007-07-01
	<i>Edition</i>	Second Edition
	<i>Series/Journal name</i>	International Standard
	<i>Issue identification</i>	ISO 19111:2007
	<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	Used in vertical coordinate reference systems.	

## Axes

<i>Item class</i>	CoordinateSystemAxis	
<i>Name</i>	<b>Gravity-related height</b>	
<i>Item status</i>	VALID	
<i>Identifier</i>	35	
<i>Information source</i>	<i>Title</i>	ISO 19111 Geographical information - Spatial referencing by coordinates
	<i>Author</i>	International Organization for Standardization (ISO)
	<i>Publisher</i>	International Organization for Standardization (ISO)
	<i>Publication date</i>	2007-07-01
	<i>Edition</i>	Second Edition
	<i>Series/Journal name</i>	International Standard
	<i>Issue identification</i>	ISO 19111:2007
	<i>Data source</i>	ISO Geodetic Registry
<i>Remarks</i>	Used in a 1D vertical coordinate system.	
<i>Abbreviation</i>	H	
<i>Direction</i>	up	
<i>Unit</i>	metre	